BOBBY JINDAL GOVERNOR



HAROLD LEGGETT, PH.D. SECRETARY

State of Louisiana

DEC 1 9 2008

DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL SERVICES

CERTIFIED MAIL# 7008 1830 0004 1421 9631 RETURN RECEIPT REQUESTED

FILE NUMBER: LA0032328

AI NUMBER: 19578

ACTIVITY NUMBER: PER19990002

City of Hammond South Slough Wetland Wastewater Assimilation Project P.O. Box 2788 Hammond, LA 70404

Attention: -

Honorable Mayson Foster, Mayor

Subject:

<u>Draft</u> Louisiana Pollutant Discharge Elimination System (LPDES) permit to discharge treated sanitary wastewater into South Slough Wetland; thence into the Joyce Wildlife Management Area Wetland from a publicly owned treatment works serving the City of Hammond.

Dear Mayor Foster:

The Department of Environmental Quality proposes to reissue an LPDES permit with the effluent limitations, monitoring requirements, and special conditions listed in the attached DRAFT PERMIT. Please note that this is a DRAFT PERMIT only and as such does not grant any authorization to discharge. Authorization to discharge in accordance with this permitting action will only be granted after all requirements described herein are satisfied and by the subsequent issuance of a FINAL PERMIT. Upon issuance, the LPDES permit shall replace the two previously issued EPA (NPDES) permits. The NPDES permit numbers are LA0032310 (Hammond North Plant) and LA0032328 (Hammond South Plant).

This Office will publish a public notice one time in the local newspaper of general circulation, and in the Department of Environmental Quality Public Notice Mailing List. A copy of the public notice containing the specific requirements for commenting to this draft permit action will be sent under separate cover at the time the public notice is arranged. In accordance with LAC 33:IX.6521.A, the applicant shall receive and is responsible for paying the invoice(s) from the newspaper(s). LAC 33:IX.6521 states, "...The costs of publication shall be borne by the applicant."

Pursuant to LAC 33.IX.1309.I, LAC 33.IX.6509.A.1 and LAC 33.I.1701, you must pay any outstanding fees to the Department. Therefore, you are encouraged to verify your facility's fee status by contacting LDEQ's Office of Management and Finance, Financial Services Division at (225) 219-3863. Failure to pay in the manner and time prescribed could result in applicable enforcement actions as prescribed in the Environmental Quality Act, including, but not limited to revocation or suspension of the applicable permit, and/or assessment of a civil penalty against you.

City of Hammond South Slough Wetland WW Assimilation Project RE: <u>LA0032328</u>; Al<u>19578</u>; <u>PER19990002</u> Page Two

The invoice, fee rating worksheet, and a copy of the fee regulations will be sent under a separate cover letter as applicable. Please note that a copy of the fee rating worksheet is also attached to this draft permit. A copy of the entire Louisiana Water Quality Regulations (Volume 14) may be obtained from the LDEQ Office of Environmental Assessment, Post Office Box 4314, Baton Rouge, Louisiana 70821-4314, (225) 219-3236.

For sanitary treatment plants, the plans and specifications must be approved by the Department of Health and Hospitals, Office of Public Health, P.O. Box 4489, Baton Rouge, Louisiana 70821-4489, (225) 342-7395.

To ensure that all correspondence regarding this facility is properly filed into the Department's Electronic Data Management System, you must reference your Agency Interest number AI 19578 and LPDES permit number LA0032328 on all future correspondence to this Department, including Discharge Monitoring Reports.

Should you have any questions concerning any part of the DRAFT PERMIT, public notice requirements, or fees, please contact Mr. Eura DeHart, Office of Environmental Services, Water Permits Division, at the address on the preceding page or telephone (225) 219-3092.

Sincerely,

Tom Killeen, Environmental Scientist Manager Municipal and General Water Permits Section

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attachments: (DMR, Draft Permit Parts I-III, Fact Sheet, and Fee Sheet)

ec: Ms. Gayle Denino

Office of Management & Finance

Permit Compliance Unit
Office of Environmental Compliance

Public Participation Group (for pubic notice)
Office of Environmental Assistance

Public Health Chief Engineer Office of Public Health Department of Health and Hospitals

cc: IO-W

Mr. Eura DeHart Water Permits Division

DRAFT



PERMIT NUMBER: <u>LA0032328</u>
AGENCY INTEREST NO.: <u>19578</u>
ACTIVITY NO.: PER19990002

DRAFT

OFFICE OF ENVIRONMENTAL SERVICES Water Discharge Permit

Pursuant to the Clean Water Act, as amended (33 U.S.C. 1251 et seq.), and the Louisiana Environmental Quality Act, as amended (La. R. S. 30:2001 et seq.), rules and regulations effective or promulgated under the authority of said Acts, and in reliance on statements and representations heretofore made in the application, a Louisiana Pollutant Discharge Elimination System permit is issued authorizing

City of Hammond

South Slough Wetland Wastewater Assimilation Project

P.O. Box 2788

Hammond, LA 70404

Type Facility:

publicly owned treatment works serving the City of Hammond

Location:

1801 Mooney Avenue in Hammond, Tangipahoa Parish

Receiving Waters:

South Slough Wetland; thence to Joyce Wildlife Management Area

Wetland (040604-001)

to discharge in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, and III attached hereto.

This permit shall become effective on

This permit and the authorization to discharge shall expire five (5) years from the effective date of the permit.

Issued on

Cheryl Sonnier Nolan Assistant Secretary DRAFT

PART I Page 2 of 4

Draft <u>LA0032328</u>; Al<u>19578</u>

PER19990002

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date of the permit and lasting through the expiration date of the permit the permittee is authorized to discharge from:

Outfall 001, treated sanitary wastewater (design flow is 8.0 MGD).

Located at:

Latitude 30°24'23" North Longitude 90°25'49" West

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic			Discharge	Limitations		Monitoring Re	quirements
•		(lbs.	/day)	other unit	s (specify)		
Flow-MGD	Storet Code 50050	Weekly Avg. Report	Monthly Avg. Report	Monthly Avg.	Weekly Avg.	Measurement Frequency Continuous	Sample <u>Type</u> Recorder ²
BOD₅	00310		2002	30 mg/l	45 mg/l	2/week	6 Hr. Composite
TSS	00530		6005	90 mg/l	135 mg/l	2/week	6 Hr. Composite
Total Nitrogen ^{3, 7} Total Phosphorus ⁷	00600 00665		Report Report	Report mg/l Report mg/l	Report mg/l	Quarterly Quarterly	6 Hr. Composite
Magnesium, Total	00927	· ·	Report	Report mg/l	Report mg/l	1/6 months	6 Hr. Composite 24 Hr. Composite
Lead, Total	01051		Report	Report mg/I	Report mg/l	1/6 months	24 Hr. Composite
Cadmium, Total	01027		Report	Report mg/l	Report mg/l	1/6 months	24 Hr. Composite
Chromium, Total	01034		Report	Report mg/l	Report mg/i	1/6 months	24 Hr. Composite
Iron, Total	01045		Report	Report mg/l	Report mg/l	1/6 months	24 Hr. Composite
Nickel, Total	01067		Report	Report mg/l	Report mg/l	1/6 months	24 Hr. Composite
Silver, Total	01077		Report	Report mg/l	Report mg/l	1/6 months	24 Hr. Composite
Selenium, Total Fecal Coliforms ⁹	01147		Report	Report mg/l	Report mg/l	1/6 months	24 Hr. Composite
colonies/100ml	74055				·	2/week	Grab
pH (Standard Units)⁴	00400					2/week	Grab
Total Residual Chlorine ⁵ Wetland Monitoring ⁶	50060			No Measureable	No Measureable	2/week	Grab
**Charle Monitoring						•	•

Priority Pollutants

Effluent Characteris	<u>tic</u>	Discharge Limitation	<u>s</u>	<u>Monite</u>	oring Requirem	ents	
	· • · · ·	(lbs/day)	•				:'
	Storet <u>Code</u>	Monthly Avg.	Weekly Avg.		Measurement Frequency	Sample <u>Type</u>	
Total Copper ⁸ Total Mercury ⁸ Total Zinc ⁸	01042 71900 01092	0.85 0.002 6.62	2.02 0.004 15.71		1/month 1/month 1/month	24 Hr. Composite 24 Hr. Composite 24 Hr. Composite	

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PART I Page 3 of 4

Draft <u>LA00323</u>28; Al19578

PER19990002

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

Whole Effluent Toxicity Testing

	Quality	(Percent % UNLESS ST	ATED)	·	
	Storet	Monthly Avg.	48 Hour	Measurement	Sample
Biomonitoring	<u>Code</u>	<u>Minimum</u>	<u>Minimum</u>	Frequency	Type
<u>Daphnia</u> <u>pulex</u>	TEM3D1	Report	Report	2/year	24-Hr Composite
	TOM3D	Report	Report	2/year	24-Hr Composite
	TQM3D	Report	Report	2/year	24-Hr Composite
Pimephales promelas	TEM6C ¹	Report	Report	2/year	24-Hr Composite
	TOM6C	Report	Report	2/year	24-Hr Composite
	TQM6C	Report	Report	2/year	24-Hr Composite

If a test failure has occurred and the required retests have been performed, the test results are to be reported on the DMR as follows:

	Storet	Monthly Average	48 Hour	Measurement	Sample
Biomonitoring	<u>Code</u>	<u>Minimum</u>	Minimum	Frequency	Type
Retest #1	22415	Report ¹	Report!		24-Hr Composite
Retest #2	22416	Report ¹	Report ¹	As Required	24-Hr Composite
Retest #3	51443	Report ¹	Report ¹	As Required	24-Hr Composite

- Species Quality Reporting Units: Pass = 0, Fail = 1
- Includes totalizing meter or totalizer.
- Total Nitrogen will be reported as the sum of Total Kjeldal Nitrogen (TKN) plus Nitrate and Nitrite.
- The pH shall not be less than <u>6.0</u> standard units nor greater than <u>9.0</u> standard units. The permittee shall report on the Discharge Monitoring Reports both the minimum and maximum instantaneous pH values measured.
- Given the current constraints pertaining to chlorine analytical methods, NO MEASURABLE will be defined as less than 0.1 mg/l of chlorine.
- See Part II, Section D, Wetland System Monitoring Requirements.
- Data obtained from the TN and TP analysis will be used to derive nutrient loading per square meter of wetlands which will be reported in the Annual Wetland Monitoring Report. If loading rates exceed 15 g/m²/yr total nitrogen or 4 g/m²/yr total phosphorus, then either the loading rates must be reduced or the assimilation area must be increased.
- If any analytical test result for Total Copper, Total Mercury, and Total Zinc is less than the following minimum quantification level (MQL), then a value of zero (0) shall be used for the discharge monitoring report (DMR) calculations and reporting requirements.

POLLUTANT	MQL
Total Copper	10 µg/l
Total Mercury	0.2 µg/l
Total Zinc	20 ug/l

Fecal coliform density shall not exceed 200 colonies/100 ml (monthly average) and 400 colonies/100 ml (daily maximum).

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PART I Page 4 of 4 Draft <u>LA0032131</u>; AI <u>43356</u> PER20040001

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There are 900 Distribution Nozzles that will distribute effluent to the wetlands. The Distribution Nozzles will be employed in any combination and rotation necessary to ensure uniform coverage and to maximize the assimilation potential and the productivity of the wetland. Dates of employment of the Distribution Nozzles will be noted in the Annual Wetland Monitoring Report. The Department reserves the right to require a scheduled rotation of the distribution nozzles.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location:

Outfall 001, at the point of discharge from the last treatment unit prior to distribution to the wetlands and mixing with other waters. This sampling point is located in a strongbox about 200' west of the discharge pipeline.

Draft <u>LA0032328</u>; AI <u>19578</u> PER19990002

PART II

OTHER REQUIREMENTS

In addition to the standard conditions required in all permits and listed in Part III, the office has established the following additional requirements in accordance with the Louisiana Water Quality Regulations.

SECTION A. GENERAL STATEMENTS

- 1. This permit may be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitations issued or approved under sections 301 (b) (2) (c) and (d); 304 (a) (2); and 307 (a) (2) of the Clean Water Act, if the effluent standard or limitations issued or approved:
 - A. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - B. Controls any pollutant not limited in the permit; or
 - Require reassessment due to change in 303(d) status of waterbody; or
 - D. Incorporates the results of any total maximum daily load allocation, which may be approved to the receiving water body.
- 2. This permit does not in any way authorize the permittee to discharge a pollutant not listed or quantified in the application or limited or monitored for in the permit.
- 3. Authorization to discharge pursuant to the conditions of this permit does not relieve the permittee of any liability for all damages to state waters or private property. For discharges to private land, this permit does not relieve the permittee from obtaining proper approval from the landowner for appropriate easements and rights of way.
- 4. For definitions of monitoring and sampling terminology see Part III, Section F.
- 5. 24-hour Oral Reporting: Daily Maximum Limitation Violations

Under the provisions of Part III Section D.6.e.(3) of this permit, violations of daily maximum limitations for the following pollutants shall be reported orally to the Office of Environmental Compliance within 24 hours from the time the permittee became aware of the violation followed by a written report in five days.

Pollutants: None.

- 6. As an exception to Part III Section D.6.e.(1), the permittee shall report all overflows in the collection system with the Discharge Monitoring Report submittal. These reports shall be summarized and reported in tabular format. The summaries shall include: the date, time, duration, location, estimated volume, and cause of the overflow; observed environmental impacts from the overflow; actions taken to address the overflow; and the ultimate discharge location if not contained (e.g., storm sewer system, ditch, tributary). All other overflows and overflows which endanger human health or the environment must be reported in the manner described in Part III, Section D.6 of the permit.
- 7. In accordance with La.R.S.40:1149, it shall be unlawful for any person, firm, or corporation, both municipal and private, operating a water supply system or sewerage system to operate same unless the competency of the operator is duly certified to by the State Health Officer. Furthermore, it shall be unlawful for any person to perform

Part II
Page 2 of 31
Draft <u>LA0032328</u>; AI<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

the duties of an operator without being duly certified. Therefore, the City of Hammond should take whatever action is necessary to comply with La.R.S. 40:1149.

8. The permittee shall achieve compliance with the effluent limitations and monitoring requirements specified for discharges in accordance with the following schedule:

EFFECTIVE DATE OF THE PERMIT

9. DISCHARGE MONITORING REPORTS

Monitoring results must be reported on a Discharge Monitoring Report (DMR) form (EPA No. 3320-1 or an approved substitute). All monitoring reports must be retained for a period of at least three (3) years from the date of the sample measurement. The permittee shall make available to this Department, upon request, copies of all monitoring data required by this permit.

If there is a no discharge event at any of the monitored outfall(s) during the sampling period, place an "X" in the <u>NO DISCHARGE</u> box located in the upper right corner of the Discharge Monitoring Report.

Reporting periods shall end on the last day of the month. Monitoring results for each month shall be summarized on a Discharge Monitoring Report (DMR) Form and submitted to the Office of Environmental Compliance on a monthly basis, postmarked no later than the 15th day of the month following each reporting period.

Permittees shall be required to submit DMRs according to the following schedule or as established in the permit:

For parameter(s) with monitoring frequency(ies) of 1/month or more frequent:

Postmark DMR by the 15th day of the following month.

For parameter(s) with monitoring frequency (ies) of 1/quarter:

Monitoring Period
January 1-March 31
April 1-June 30
July 1- September 30
October 1 – December 31

DMR Postmark Date
April 15th
July 15th
October 15th
January 15th

For parameter(s) with monitoring frequency (ies) of semi-annual:

Monitoring Period
January 1-June 30
July 1- December 31

DMR Postmark Date
July 15th
January 15th

For parameter(s) with monitoring frequency(ies) of 1/year:

Monitoring Period DMR Postmark Date

January 1- December 31 January 15 th

Part II
Page 3 of 31
Draft <u>LA0032328</u>; AI<u>19578</u>
PER19990002

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OTHER REQUIREMENTS (cont.)

Duplicate copies of DMRs (one set of originals and one set of copies) signed and certified as required by LAC 33:IX.2503, and all other reports (one set of originals) required by this permit shall be submitted to the Permit Compliance Unit (one set of copies) at the following address:

Department of Environmental Quality
Office of Environmental Compliance
Enforcement Division
Post Office Box 4312
Baton Rouge, Louisiana 70821-4312
Attention: Permit Compliance Unit

10. The permittee shall develop and implement a Mercury Minimization Program Plan within one year of the effective date of this permit. The plan shall be submitted to the Office of Environmental Compliance at PO Box 4312, Baton Rouge, LA 70821-4312. The plan may be formatted in accordance with the attached LDEQ Mercury Minimization Program Guidance Document, February 2007. Yearly thereafter, the permittee shall submit an annual report to the LDEQ, Office of Environmental Compliance at the above address. The annual report may be formatted in accordance with the attached LDEQ Mercury Minimization Program Guidance Document, February 2007, Appendix C.

Part II Page 4 of 31 Draft <u>LA0032328</u>; AI<u>19578</u> PER19990002

OTHER REQUIREMENTS (cont.)

SECTION B. MUNICIPAL WATER POLLUTION PREVENTION

Pollution Prevention Requirements

1. The permittee shall institute or continue programs directed towards pollution prevention. The permittee shall institute or continue programs to improve the operating efficiency and extend the useful life of the facility. The permittee will complete an annual Environmental Audit Report <u>each year</u> for the life of this permit according to the schedule below. A copy of the Environmental Audit Form has been attached to this permit. Please make additional copies to be utilized for each year of this permit. Additional copies can be obtained upon request.

The audit evaluation period is as follows:

Audit Period	Audit Period	Audit Report
Begins	Ends	Completion Date
Effective Date of	12 Months from Audit	3 Months from Audit
Permit	Period Beginning Date	Period Ending Date

These reports shall discuss the following items:

- a. The influent loading, flow, and design capacity of the facility;
- b. The effluent quality and plant performance;
- c The age of the wastewater treatment facility:
- d. Bypasses and overflows of the tributary sewerage system and treatment works;
- The ultimate disposition of the sewage sludge;
- f. Landfilling of sewage sludge and potential alternatives (if applicable);
- g. New developments at the facility;
- h. Operator certification and training;
- i. The financial status of the facility; and
- j. A subjective evaluation of conditions at the facility.
- 2. A resolution from the permittee's governing body shall be obtained as part of the Environmental Audit Report. This resolution shall include, at a minimum, the following:

Part II
Page 5 of 31
Draft <u>LA0032328</u>; Al<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

- a. An acknowledgement that the governing body has reviewed the Environmental Audit Report;
- b. A description of actions that the permittee will take to maintain compliance with the permit conditions, and if necessary, include a schedule outlining major projects to be accomplished.
- 3. The Environmental Audit Report and the governing body's resolution must be signed by a duly authorized representative of the permittee and shall be maintained with the permit and permit related records (i.e. lab data, DMRs), and made available upon request by duly authorized regional inspectors and/or DEQ Headquarters representatives.

Part II
Page 6 of 31
Draft <u>LA0032328</u>; Al<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

SECTION C. CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

- 1. The following pollutants may not be introduced into the treatment facility:
 - a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21;
 - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0, unless the works are specifically designed to accommodate such discharges;
 - c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;
 - d. Any pollutant, including oxygen demanding pollutants (BOD, etc.), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;
 - e. Heat in amounts, which will inhibit biological activity in the POTW resulting in Interference, but in no case heat in such quantities that the temperature at the POTW treatment plant exceeds 40 degrees Centigrade (104 degrees Fahrenheit) unless the Approval Authority, upon request of the POTW, approves the alternate temperature limit;
 - f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral origin in amounts that will cause interference or pass through;
 - g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and
 - Any trucked or hauled pollutants, except at discharge points designated by the POTW.
- 2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act, including any requirements established under LAC33.IX.Subpart 2.Chapter 61.
- 3. The permittee shall provide written notice of the following to the Louisiana Department of Environmental Quality, Office of Environmental Services.
 - a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were directly discharging those pollutants.
 - b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.
 - c. Any notice shall include information on (1) the quality and quantity of effluent to be introduced into the treatment works, and (2) any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

Part II Page 7 of 31

Draft LA0032328; Al19578

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PER19990002

OTHER REQUIREMENTS (cont.)

4. The permittee shall comply with the pretreatment requirements in LAC 33:IX.Subpart 2, Chapter 61, as specified in the following Schedule of Compliance. In accordance with LAC 33:IX.6115.B, the permittee shall "develop and submit such a program for approval as soon as possible, but in no case later than one year after the receipt of written notification from the approval authority of such identification".

ACTIVITY NUMBER	ACTIVITY	DUE DATE
1.	Submit to the Louisiana Department of Environmental Quality, Office of Environmental Services results of an industrial user survey which consists of a qualitative analysis of pollutants being contributed by all industrial sources in its entire municipal system (including all treatment plants). The industrial users should be asked to provide information on the type and approximate quantity of pollutants discharged into the system. This information may be derived from knowledge of the facility's process, and should not require any sampling at the source.	2 months from the effective date of permit
	After receipt and evaluation of the industrial user survey, LDEQ Office of Environmental Services will notify the permittee in writing whether the permittee will be required to develop a Pretreatment Program and comply with Activities 2 – 7 below. If development of a Pretreatment Program is required, in accordance with LAC 33:IX.6115.B, the permittee shall "develop and submit such a program for approval as soon as possible, but in no case later than one year after the receipt of written notification from the approval authority of such identification".	
	Note: Activities $2-7$ shall only be completed upon receipt of notification from LDEQ to develop and implement a Pretreatment Program.	
2.	Submit to the Louisiana Department of Environmental Quality, Office of Environmental Services a design of a sampling, inspection and reporting program which will implement the requirements of LAC 33:IX.6115 and LAC 33:IX.6123, and in particular those requirements referenced in LAC 33:IX.6115.F.1.d (i-ii), LAC 33:IX.6115.F.2 (e-g) and LAC 33:IX.6123 (g-j and I-p).	2 months from the receipt of notification from LDEQ to develop and implement Pretreatment Program
3.	Submit to the Louisiana Department of Environmental Quality, Office of Environmental Services an evaluation of the financial programs, revenue sources, equipment and staffing, which will be employed to implement the pretreatment program (as required by LAC 33:IX.6115.F.3 and LAC 33:IX.6117.B.3).	4 months from the receipt of notification from LDEQ to develop and implement Pretreatment Program

Part II
Page 8 of 31
Draft <u>LA0032328</u>; AI<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

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4.	Submit to the Louisiana Department of Environmental Quality, Office of Environmental Services the results of an influent pollutant scan. The permittee shall analyze the treatment facility influent for the presence of the toxic pollutants listed in LAC 33:IX.7107.Appendix D (LPDES Application Testing Requirements) Table II and Table III. If, based upon information available to the permittee, there is reason to suspect the presence of any pollutant listed in Table VI and/or Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed on the influent. The influent samples collected shall be composite samples consisting of at least 12 aliquots collected at approximately equal intervals over a representative 24 hour period and composited according to flow. Sampling and analytical procedures shall be in accordance with guidelines established in 40 CFR 136. Where composite samples are inappropriate, due to sampling, holding time, or analytical constraints, at least 4 grab samples, taken at equal intervals over a representative 24 hour period, shall be taken.	4 months from the receipt of notification from LDEQ to develop and implement Pretreatment Program
	This scan will also serve as the initial scan necessary for developing technically based local limits (Activity 5 as follows). From the qualitative information supplied by the industrial users in Activity 1 and the quantitative information collected in the pollutant scan, the permittee shall determine which industrial users may be discharging pollutants which may affect the operation of the POTW(s) or pass through untreated.	
5 .	Submit to the Louisiana Department of Environmental Quality, Office of Environmental Services an approvable technically based local limits submission package as required by LAC 33:IX.6115.F.4. Technically based local limits should be developed in accordance with "EPA Region 6 Technically Based Local Limits Development Guidance" (July, 2004 or recent edition).	7 months from the receipt of notification from LDEQ to develop and implement Pretreatment Program

Part II
Page 9 of 31
Draft <u>LA0032328</u>; AI<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

	<u> </u>	
6.	LAC 33:IX.6115.F.1 requires POTWs to apply and enforce the requirements of sections 307(b) and (c), and 402(b)(8) of the Act and any regulations implementing those sections. Submit to the Louisiana Department of Environmental Quality, Office of Environmental Services: (a) a statement from the city solicitor, a city official acting in a comparable capacity, or the city's independent counsel, that the POTW has the authority to carry out the program;	10 months from the receipt of notification from LDEQ to develop and implement Pretreatment Program
	(b) a copy of any statute, ordinance, regulation, contract, agreement, or other authority that will be relied on by the POTW to administer the program;	
	(c) a statement reflecting the endorsement of or approval by the local boards or bodies responsible for supervising and/or funding the program;	
	(d) any additional documents required in multi-jurisdictional situations for administration of the program; and	
	(e) an enforcement response plan that shall contain detailed procedures indicating how the POTW will investigate and respond to instances of industrial user noncompliance. The plan shall contain, at a minimum, the aspects defined at LAC 33:IX.6115.F.5.	
7.	Submit to the Louisiana Department of Environmental Quality, Office of Environmental Services an approvable pretreatment program (and removal credit approval, if desired and appropriate) as required by LAC 33:IX.6117. The approvable pretreatment program shall include a compilation of all previously submitted pretreatment program activities as finally amended and supplemented (i.e. Activities 1-6).	12 months from the receipt of notification from LDEQ to develop and implement Pretreatment Program
	Upon notification by the Louisiana Department of Environmental Quality, Office of Environmental Services of approvability of the submitted program, the permittee is required to submit an official request for program approval, including three (3) copies of the program deemed to be approvable.	
	If enforcement authority has been retained by EPA, a copy of all reports required by the above schedule must also be submitted to the following address:	
	U.S. Environmental Protection Agency, Region 6 Water Enforcement Branch, 6 EN-WC 1445 Ross Ave. Dallas, Texas 75202	

Part II Page 10 of 31 Draft <u>LA0032328</u>; AI<u>19578</u> PER19990002

OTHER REQUIREMENTS (cont.)

- a. If the permittee does not comply with any of the increments of the progress in the above schedule, the permittee shall submit to the Louisiana Department of Environmental Quality, Office of Environmental Services within 14 days of the activity due date a report, including, at a minimum, the date on which the required activity will be submitted, the reason for the delay, and the steps taken to return to the established schedule.
- b. Upon approval of a local pretreatment program by the Approval Authority, this permit will be modified, or, alternatively, revoked and reissued to incorporate that pretreatment program.
- c. The permittee may develop and submit an approvable pretreatment program at any time before the deadline established in Activity 7.
- d. The permittee may apply for authority to revise categorical pretreatment standards to reflect POTW removal of pollutants in accordance with the requirements of LAC 33:IX.6113 at any time.

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Part II Page 11 of 31

Draft <u>LA0032328</u>; Al<u>19578</u>

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PER19990002

OTHER REQUIREMENTS (cont.)

SECTION D. WETLAND SYSTEM MONITORING REQUIREMENTS

1. MONITORING AND REPORTING shall apply to both wastewater assimilation area and control area as defined in the following chart:

	WHILAND CONFORM				
(PARAMEIJER)	FLORA	SEDIMENT	SURFAGE		
Species Classification	Р				
Percentage of Whole Cover (for each species)	Р				
Growth Studies	A ₁				
Water Stage			М		
Metals: Mg, Pb, Cd, Cr, Cu, Zn, Fe, Ni, Ag, Se	P ₁	'P ₁	Р		
Metals Analysis: Hg, As		P ₁	-		
Nutrient Analysis I: TKN, TP	P _{1,2}	P _{1,2}	Q		
Nutrient Analysis II: NH₃N, NO₂N, NO₃N, PO₄		Р,	Q		
Others: BOD ₅ , TSS, pH, Dissolved Oxygen			P ₁		
Accretion Rate		P ₁			

A: ANNUALLY.

Sample once per year at all three (3) WASTEWATER ASSIMILATION AREA sites and the CONTROL AREA and included in the yearly report.

A₁ – Stem growth and litter fall.

M: MONTHLY.

Samples should be taken at all three (3) WASTEWATER ASSIMILATION AREA sites and the CONTROL AREA each month and include in the yearly report.

P: PERIODICALLY.

Sampling must be made once during September through November in the fourth year of the permit period for all three (3) WASTEWATER ASSIMILATION AREA sites and the CONTROL AREA.

P₁ – Sample preservation, handling, and analysis must meet the specifications of the Test Methods for Evaluating Solid Waste Physical/Chemical Methods, third edition (EPA Publication Number SW-846, 1986, or most recent revision) or an equivalent substitute as approved by the administrative authority.

P₂ – Sampling to be conducted in summer to reflect peak growth.

Q: QUARTERLY.

Sampling (one sample collected per site) must be made every three months annually for all three (3) WASTEWATER ASSIMILATION AREA sites and the CONTROL AREA.

Part II
Page 12 of 31
Draft <u>LA0032328</u>; AI<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

- Sampling and classifying the flora present and determining percentage of total cover for each
 vegetative species. The sampling will provide information on whether dominance and species diversity of
 the community is being altered.
- Growth studies of vegetative productivity, which will provide an indication of health and vigor of the plant community.
- Water stage is a gauged measurement of the water depth, which will assist in determining stress in the
 wetlands from hydrologic loadings and will determine the existence of a zone of influence resulting from
 wastewater applications. The zone around the discharge serves to assimilate the wastewater most
 effectively. This zone grows larger as wastewater continues to be discharged and the assimilative
 capacity of the immediate area becomes saturated.
- Metals and nutrient data from plant tissue samples, which will identify excesses or deficiencies that could become problematic.
- Sediment analysis for metals, and nutrients, which will indicate whether or not metals are bound and buried in the sediments, and nutrients assimilated.
- Corresponding analysis of surface water must be made to provide a comparison of water quality in the
 vicinity of the discharge and at increasing distance from it.

Parameters are to be sampled and monitored for the specified wetland component at all three (3) wastewater management areas and the two (2) control areas.

Water quality will be monitored by taking water samples along the path of flow of the effluent in the treatment site and from one or more control sites.

Compared to data from the baseline study and the control site(s), the effects of the discharge on the biological integrity (as defined above) may be accurately assessed.

The impacts of treated municipal effluent on assimilation wetlands are assessed in two ways: 1) by comparison to a reference (or 'control') area located nearby with similar ecological characteristics but not influenced by the municipal effluent; and 2) by comparison of environmental data collected at the wetlands prior to effluent addition. Impacts are evaluated between the assimilation wetland and an adjacent reference wetland using data collected during the year preceding the analysis (e.g., stem growth, leaf litter biomass, surface water nutrients, etc.). An analysis of variance (ANOVA) analysis using statistical software is carried out to determine if significant differences (a < 0.05) exist between the assimilation and reference wetlands. Comparisons of means with ANOVA tests are made using Tukey-Kramer Honestly Significant Difference (HSD) test. Other statistical tests are used as appropriate (i.e. summary statistics, data distribution, tests of data normality and other assumptions). Generally, significant increases in vegetation productivity in the assimilation versus the reference wetlands are positive impacts, while increases in surface water nutrients and heavy metal concentrations are negative impacts that may require corrective action.

The second analysis utilizes pre- and post-discharge measurements of vegetative productivity, water quality, and several other environmental parameters to determine if treated municipal effluent has impacted the assimilation wetland. A paired t-test is used to compare group means between the Ecological Baseline Study (EBS) data and recently collected data. Data are considered significantly different at a probability > |t| pf < 0.05. As with the analysis between the assimilation and reference wetlands, significant increases in vegetation productivity data over data gathered during the EBS are viewed as positive impacts, while increases in surface water nutrients and concentrations of heavy metals are viewed as negative impacts that may require corrective action.

Part II
Page 13 of 31
Draft <u>LA0032328</u>; Al<u>19578</u>
PER19990002

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OTHER REQUIREMENTS (cont.)

Sampling in the WASTEWATER MANAGEMENT AREA must be conducted as follows:

Collection of a minimum of three samples per site in each of three sites: 1) approximately 100' from the discharge point (treatment site), 2) midway (mid site), and 3) at a point near where the water leaves the assimilation wetland (out site).

Exception: Only one sample per site in each of the three sites for those samples collected quarterly.

Sampling for the CONTROL AREA must be conducted as follows:

Collection of a minimum of three samples per site in each of the two sites: All three samples will be taken from a site or sites similar to the wastewater management area.

Exception: Only one sample per site in the control area sites for those samples collected quarterly.

Monitoring shall be conducted at the sites identified in the Hammond Wetland Wastewater Assimilation Uses. Attainability Analysis (Day et al., 2005).

Wait AND MONITORING REPORT REQUIREMENT SOLIE WILL					
REPORT	DUEDATE				
Annual Wetland Monitoring Report ¹	NO LATER THAN 30 days from one (1) year from the effective date of the permit				
Annual Wetland Monitoring Report ¹	NO LATER THAN 30 days from two (2) years from the effective date of the permit				
Annual Wetland Monitoring Report ¹	NO LATER THAN 30 days from three (3) years from the effective date of the permit				
Annual Wetland Monitoring Report ¹ and the Fourth Year Wetland Monitoring Report ²	NO LATER THAN 30 days from four (4) years from the effective date of the permit				
Annual Wetland Monitoring Report ¹	NO LATER THAN 30 days from five (5) years from the effective date of the permit				

¹ Annual Wetland Monitoring Report must be submitted on the attached forms and shall consist of:

Parameter.	Weiland Component
Growth Studies (Stem Growth & Litter Fall)	Flora
Water Stages	Surface Water
Metal Analysis	Effluent Water
Nutrient Analysis I	Surface Water
Nutrient Analysis II	Surface Water
Loading Rate	Effluent Water

Part II
Page 14 of 31
Draft <u>LA0032328</u>; Al<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

² Fourth Year Wetland Monitoring Report must be submitted on the attached forms and shall consist of:

Parameter	Welland Component
Species Classification	Flora
Percentage of Whole Cover	Flora
Metal Analysis	Flora, Sediment, & Surface Water
Nutrient Analysis I	Flora & Sediment
Nutrient Analysis II	Sediment
Accretion	Sediment
Other Parameters	Surface Water

In the event that a permit is not reissued in a timely manner, the Annual Wetland Monitoring Report shall be submitted for the years following the expiration date of the permit and shall be due 30 days after the anniversary of the effective date of this permit.

A copy of each report required by this permit shall be submitted to the Permits Compliance Unit, and shall also be submitted to the Permits Division and Planning Division at the following addresses:

Louisiana Department of Environmental Quality
Office of Environmental Compliance
Enforcement Division
Post Office Box 4312
Baton Rouge, Louisiana 70821-4312
Attention: Permit Compliance Unit

Louisiana Department of Environmental Quality
Office of Environmental Services
Water Permits Division
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

Louisiana Department of Environmental Quality
Office of Environmental Assessment
Environmental Planning Division
Post Office Box 4314
Baton Rouge, Louisiana 70821-4314

2. If wetland monitoring shows that there is:

- MORE THAN A 20% DECREASE IN NATURALLY OCCURRING LITTER FALL OR STEM GROWTH: OR
 - SIGNIFICANT* DECREASE IN THE DOMINANCE INDEX OR STEM DENSITY OF BALD CYPRESS
 - SIGNIFICANT* DECREASE IN FAUNAL SPECIES DIVERSITY AND MORE THAN A 20% DECREASE IN BIOMASS

Part II
Page 15 of 31
Draft <u>LA0032328</u>; Al<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

then, within 180 days of a decrease in any of the above required biological criteria, the permittee shall develop a study and test procedures to determine the origination of the cause. A determination shall be made to indicate whether or not the impact to the natural wetland was caused by the effluent. The permittee must demonstrate to the Department what has caused the problem within 9 months of the decrease in any of the above required biological criteria and develop a comprehensive plan for the expeditious elimination and prevention of such cause. The plan shall be implemented within 90 days of the determination of the cause. The plan shall provide specific corrective actions to be taken to achieve compliance with the above biological criteria within the shortest period of time. In addition, the permittee shall submit the following with the Discharge Monitoring Report in the months of January, April, July and October:

- i. any data and/or substantiating documentation which identifies the pollutant(s) and/or source(s) of effluent toxicity;
- ii. any studies/evaluations and results on the treatability of the facility's effluent toxicity;
- iii. any data which identifies effluent toxicity control mechanisms or measures that could be installed or implemented which would reduce or remove the effluent toxicity; and steps taken or proposed to be taken to prevent such violation(s) from recurring.

In addition, if studies and tests indicate that the impact to the natural wetland was caused by the effluent, then this permit may be reopened to include appropriate limitations and conditions to ensure protection of water quality standards.

*Note: One-way analysis of variance analysis will be carried out to compare treatment and control area parameters using statistical software. An alpha probability level of <0.05 will be used to define a significant difference. Comparisons of means with significant ANOVA tests will be made using Tukey-Kramer Honestly Significant Difference (HSD) test (Sall and Lehman 1996). Other statistical tests may be authorized by LDEQ as appropriate.

If loading rates exceed 15 g/m²/yr total nitrogen or 4 g/m²/yr total phosphorus, then either the loading rates must be reduced or the assimilation area must be increased.

SAMPLING METHODS TO BE USED DURING THE WETLAND MONITORING PHASE.

Required parameters shall use these methods, unless another method is authorized by this department:

"Terrestrial Plant Ecology. Chapter 9. Method of Sampling the Plant Community Barbour, et al 1987,

Methods for Estimating the Primary Production of Forest. P. J. Newbould 1967;

Effect of forest management practices on southern wetland productivity, W. H. Conner, 1994;

The use of wetlands in the Mississippi River Delta for wastewater assimilation: a review, Day, J. W. et al 2004.

Water quality analyses must be conducted according to test procedures approved under 40 CFR Part 136.

For soils/sediments, sample preservation, handling, and analysis must meet the specifications of the Test Methods for Evaluating Solid Waste Physical/Chemical Methods, third edition (EPA Publication Number SW-846, 1986, or most recent revision) or an equivalent substitute as approved by the administrative authority.

Part II
Page 16 of 31
Draft <u>LA0032328</u>; AI<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

These methods are from *The Use of Louisiana Swamp Forests for Application of Treated Municipal Wastewater: Standard Operating Procedures for Monitoring the Effects of Effluent Discharge.* John W. Day, Jr., Joel Lindsey, Jason N. Day, and Robert R. Lane, Comite Resources, Inc. (Used with the permission of Dr. John W. Day, Jr., March 14, 2003)

WATER QUALITY

- Dissolved oxygen and water temperature: is measured using a Yellow Springs Instrument Co. meter or an ORION Model 820 Dissolved Oxygen meter or equivalent. The probe will be calibrated within four hours of use with a known standard (100% air saturation).
- 2. **pH & TDS**: Measurements of pH and TDS (Total Dissolved Solids) are made in the field using a Corning Checkmate M90 Field System or equivalent. Water samples will be collected in 500 ml polyethylene bottles and returned to the laboratory where pH will again be measured in the lab using a Jenco Markson pH meter, Model 6100 or equivalent.
- 3. **Nutrients**: Discrete water samples will be taken 5 to 10 cm below the water surface with effort taken not to stir bottom sediments or include any film that may be present on water surface. Samples are collected in 500 ml acid washed polyethylene bottles. The samples will be immediately stored at 4°C, on ice, for preservation. The samples will be transported to an analytical laboratory, and within 24 hours filtered and sub-sampled. Samples analyzed for NO₂ + NO₃, NH₄ and PO₄ will be filtered in the laboratory using 0.45 um Whatman GF/F glass fiber filters or equivalent, and unfiltered samples will be sub-sampled into 125 mL bottles. Both filtered and unfiltered samples will be frozen until analysis. The samples will be analyzed for nitrite + nitrate (NO2+NO₃-N), ammonium (NH₄-N), total nitrogen (TN), total phosphorus (TP), and phosphate (PO₄-P) by an EPA and DEQ approved analytical laboratory using Standard Methods.
- Total Suspended Solids: TSS will be determined by filtering 100-200 mL of sample water through re-rinsed, dried and weighed 47 mm 0.45 um Whatman GF/F glass fiber filters. Filters will then be dried for 1 hr at 105° C, weighted, dried for another 15 minutes, and reweighed for quality assurance (Standard Methods 1992).
- 5. **Biological Oxygen Demand**: BOD samples will be collected in standard 300 ml glass BOD bottles. BOD₅ analysis will be from water samples collected in 500ml polyethylene bottles, stored on ice and taken to the laboratory for analysis. Initial D.O. will be measured within 24 hours. Final D.O. will be measured after 5 days of incubation at 20°C. Measurement of BOD is the responsibility of the facility.
- 6. ICP Analysis: Water samples will be collected from the effluent pipe and surface water in the treatment and control area for ICP and IC analysis. The following will be measured: Mg, Pb, Cd, Cr, Cu, Zn, Fe, Ni, Ag, and Se. The results of the ICP and IC analysis will be used in reporting the metals and nutrient parameters.
- 7. **Coliform Analysis**: Fecal coliform (i.e. *Escherichia coli*) will be tested using membrane filtration as a field preparation, and then sent to an EPA certified laboratory for analysis. Ten ml of sample water will be passed through a 0.45 micron filter. The filter will be stored in a sterile petri dish and brought within 8 hrs to a certified laboratory for analysis.
- 8. Statistical Analysis: One-way analysis of variance analysis will be carried out to compare treatment and control area parameters using statistical software. An alpha probability level of <0.05 will be used to define a significant difference. Comparisons of means with significant ANOVA tests will be made using Tukey-Kramer Honestly Significant Difference (HSD) test (Sall and Lehman 1996). Other statistical tests may be used as

Part II
Page 17 of 31
Draft <u>LA0032328</u>; Al<u>19578</u>
PER19990002

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OTHER REQUIREMENTS (cont.)

appropriate.

SOILS

- 1. Sediment Cores: At least one sediment core will be taken from each quadrate (Treatment & Control) with a 7.5 cm stainless steel corer. Following the removal of large litter debris, the top 10 to 20 cm of the samples will be separated by horizon, dried, ground and analyzed. Parameters measured will include: pH, electrical conductivity (EC), Mg, Pb, Cd, Cr, Cu, Zn, Fe, Ni, Ag, Se, NH₃-N, NO₂+NO₃-N, PO₄-P, TKN, and TP. All elemental analyses will be done using an inductively coupled argon plasma quantometer (ICP). Results will be reported as the average of duplicate analyses that are within a 10% confidence interval. The results will be based on oven dry weight.
- 2. Accretion Rate: Feldspar markers will be laid on the wetland surface at three quadrates in both the Treatment and Control areas, with each plot having three 0.25 m2 subplots where 1 cm thick powdered feldspar clay will be placed (Cahoon and Turner 1989). The subplots will be marked at each corner with PVC poles. Every four years, the thickness of material deposited on top of the feldspar marker at one subplot of each quadrate will be measured destructively by taking a 20 cm x 20 cm plug using a shovel or trowel, cleanly slicing the core into several sections to reveal the horizon, then measuring the thickness of material above the surface of the horizon at 10 different locations. The rate of vertical accretion will be calculated by dividing the mean thickness of material above the surface of the horizon by the amount of time the horizon had been in place.

VEGETATION

To sample forest vegetation, 10 m x 100 m quadrate should be established at a near, mid, and outlet locations in the treatment site, and another quadrate established at the control site. Within each main plot, three or more 10 m x 10 m subplots should be established. The quadrate will be orientated perpendicular to the hydrological gradient. All trees >10 cm in diameter at breast height (dbh) within each quadrate will be tagged with an identification number.

1. Tree Species Composition: The relative importance of each major tree species in both the treatment and control areas will be based on the density (total number), dominance (basal area), and frequency of occurrence in each of the quadrates using equations 1-4 (Barbour et al. 1987).

Relative density = (individuals of a species)/(total individuals of all species)	. (1)
Relative dominance = (total basal area of a species)/(total basal area of all species)	(2)
Relative frequency = (frequency of species)/(total frequency of all species in area)	(3)
Importance Value = Relative density + Relative dominance + Relative Frequency	(4)

- 2. Above Ground Biomass: Biomass production of a forested wetland is defined as the sum of the leaf and fruit fall (ephemeral productivity) and aboveground wood production (perennial productivity, Newbould 1967).
 - A. Ephemeral or litter fall Productivity: To estimate ephemeral productivity, litter fall should be collected using 0.25 m² boxes with 1 mm mesh bottoms. At least 2 leaf litter boxes should be installed in each subplot (a minimum of 6 boxes at each main plot). The boxes will be placed randomly in each plot. The baskets will be elevated to prevent inundation during high water periods. Litter fall should be collected bimonthly or monthly depending on the season (litter fall is highest during Fall and Winter). We use the term 'leaf litter' in reference to all non-woody litter including flowers, fruits, and seeds that typically account for <10% of the non-woody litter fall total (Megonigal and Day 1988). Leaf litter will

Part II
Page 18 of 31
Draft <u>LA0032328</u>; Al<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

be separated from woody litter, dried to constant mass at 65°C, and weighed. Leaf litter weights throughout any given year will be summed and extrapolated to g m⁻²yr⁻¹ units.

- B. Perennial Productivity: Stem biomass will be estimated from annual changes in wood biomass calculated using allometric equations based on stem diameter at breast height (dbh ~ 0.3m) as the independent variable (Table 1). The diameter at breast height (dbh) of all tagged trees will be measured above and below (~5 cm) the identification tag during the winter dormant period. This method allows measurement a safe distance from the tag's nail, which often caused the trunk to swell. Diameter will be measured above the butt swell on large cypress trees. Woody production will be calculated using regression equations (Scott et al. 1985; Megonigal et al. 1997, Table 1) based on the diameter for each species as the independent variable. We assume that the contribution of wood and stems <10 cm dbh and herbs will be a relatively small fraction of above-ground net primary production (Megonigal et al. 1997). The change in biomass from one winter's measurement to the next represents woody production for the year and will be extrapolated to g m⁻²yr⁻¹ units.
- C. **Net Primary Production:** Aboveground net primary production (NPP) will be calculated as the sum of leaf litter and wood protection, and will be given in g m⁻²yr⁻¹ units.

Table 1. Regression equations used to convert diameter at breast height (DBH) measurements to overall perennial biomass. All equations are in the form: Biomass = f (DBH), where biomass is in kg, DBH is in cm and f is the parameterized function.

Species See 1	Biomass ((D)	DBH Range	Reference
Fraxinus spp.	Biomass (kg) = ((2.669*((DBHcm*0.394)*1.16332))*0,454	>10 cm	Megonigal et al. '97
Taxodium distichum	Biomass (kg) = 10^(97+2.34*LOG10(DBHcm))	>10 cm	Megonigal et al. '97
Nyssa aquatica	Biomass (kg) = 10^(-919+2.291*LOG10(DBHcm))	>10 cm	Megonigal et al. '97
Acer rubrum	Biomass (kg) = ((2.39959*((DBHcm*0.394)^2)^1.2003))*0.454	10-28 cm	Megonigal et al. '97,
Quercus nigra	Biomass (kg) = ((3.15067*((DBHcm*0.394)^2)^1.21955))*0.45	10-28 cm	Megonigal et al. '97.
	Biomass (kg) = ((5.99898*((DBHcm*0.394)^2)^1.08527))*0.45	>28 cm	Megonigal et al. 97
Salix spp.	Biomass (kg) = 10^(-1.5+2.78*LOG10(DBHcm))	n.a.	Scott et al. 1985
Other Species	Biomass (kg) = ((2.54671*((DBHcm*0.394)^2)^1.20138))*0.45	10-28 cm	Megonigal et al. 97
	Biomass (kg) = ((1.80526*((DBHcm*0.394)^2)^1.27313))*0.45	>28 cm	Megonigal et al. '97

3. **Understory Vegetation**: Shrubs, saplings (individuals <10cm dbh but >2.5 cm dbh), and seedlings (individuals <2.5 cm dbh) will be tabulated by species in a 5m X 5m plot established in each subplot. From the data, density ands basal area will be calculated for trees and density will be calculated for sapling and seedling species.

The percent cover for herbaceous vegetation will be determined by a modified line-intercept technique patterned after that proposed by DS&N, Inc. (1988). The method consists of observations made of plant species occurring along a 1m X 10m transect located at the eastern edge of each subplot. Each 10m section is divided into 1m X 1m intervals. Species cover will be determined on the basis of the percent cover occupied within each 1m X 10m unit. Herbaceous plots will be measured at least once during the study.

4. Nutrient and Metals Analysis of Green Leaves: Green leaf samples should be collected during the last year of the monitoring from the major species in the treatment and control areas, once during March through May and once during September through November. Samples will be oven-dried at 70°C for at least 48 hours, ground in a Wiley mill to pass a 40 mesh screen, and stored in whirl-pak bags. Samples will be analyzed in the laboratory for Mg, Pb, Cd, Cr, Cu, Zn, Fe, Ni, Ag, Se, TKN and TP. The tissue analyses

Part II
Page 19 of 31
Draft <u>LA0032328</u>; Al<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

should be done by a wet digestion method. Samples shall be collected in each quadrate.

5. **Marsh Vegetation Production:** Net production in areas dominated by non-woody herbaceous vegetation will be determined by end of season live (EOSL) biomass analysis. Sampling should be conducted during the last week of September or the first week of October. At least five 0.06 m² clip plots will be taken at each location using randomly placed quadrants. Vegetation within the quadrant will be cut as close to the surface as possible, stored in labeled paper bags, brought back to the laboratory, and refrigerated until processing. Live material will be separated from dead, and dried at 60°C to a constant weight. All data will be presented on a live dry weight per square meter basis (g dry wt m⁻²). Samples shall be collected in each quadrate.

Part II Page 20 of 31 Draft <u>LA0032328</u>; AI<u>19578</u> PER19990002

OTHER REQUIREMENTS (cont.)

SECTION E. WHOLE EFFLUENT TOXICITY TESTING (48 HR ACUTE NOEC: FRESHWATER)

1. <u>SCOPE AND METHODOLOGY</u>

a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section.

APPLICABLE TO OUTFALL(S):

001

REPORTED ON DMR AS OUTFALL:

TX1

CRITICAL DILUTION:

100%

EFFLUENT DILUTION SERIES:

32%, 42%, 56%, 75%, and 100%

COMPOSITE SAMPLE TYPE:

Defined at PART I

TEST SPECIES/METHODS:

40 CFR Part 136

<u>Daphnia pulex</u> acute static renewal 48-hour definitive toxicity test using EPA-821-R-02-012, or the latest update thereof. A minimum of five (5) replicates with ten (10) organisms per replicate must be used in the control and in each effluent dilution of this test.

<u>Pimephales promelas</u> (Fathead minnow) acute static renewal 48-hour definitive toxicity test using EPA-821-R-02-012, or the latest update thereof. A minimum of five (5) replicates with ten (10) organisms per replicate must be used in the control and in each effluent dilution of this test.

- b. The NOEC (No Observed Effect Concentration) is defined as the greatest effluent dilution at and below which lethality that is statistically different from the control (0% effluent) at the 95% confidence level does not occur.
- c. This permit may be reopened to require whole effluent toxicity limits, chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.
- d. Test failure is defined as a demonstration of statistically significant lethal effects to a test species at or below the effluent critical dilution.

2. PERSISTENT LETHALITY

The requirements of this subsection apply only when a toxicity test demonstrates significant lethal effects at or below the critical dilution. Significant lethal effects are herein defined as a statistically significant difference at the 95% confidence level between the survival of the appropriate test organism in a specified effluent dilution and the control (0% effluent).

a. The permittee shall conduct a total of three (3) additional tests for any species that demonstrates statistically significant lethal toxic effects at the critical dilution or lower effluent dilutions. The additional tests shall be conducted monthly during the next three consecutive months in which a discharge occurs to determine if toxicity is persistent or occurs on a periodic basis. The purpose of this testing is to determine whether toxicity is present at a level and frequency that will provide toxic sample results to use in performing a Toxicity Reduction Evaluation (TRE). If no additional test failures occur during the retest monitoring period, the testing frequency

Part II
Page 21 of 31
Draft <u>LA0032328</u>; AI<u>19578</u>
PER19990002

M.

OTHER REQUIREMENTS (cont.)

will be once per quarter for the term of the permit or until another test failure occurs. The permittee may substitute one of the additional tests in lieu of one routine toxicity test. A full report shall be prepared for each test required by this section in accordance with procedures outlined in item 4 of this section and submitted within the period discharge monitoring report (DMR) to the permitting authority for review.

- b. If any of the valid additional tests demonstrates significant lethal effects at or below the critical dilution, the permittee shall initiate Toxicity Reduction Evaluation (TRE) requirements as specified in item 6 of this section. The permittee shall notify the Department of Environmental Quality, Office of Environmental Compliance Permit Compliance Unit in writing within 5 days of the failure of any retest, and the TRE initiation date will be the test completion date of the first failed retest. A TRE may also be required due to a demonstration of intermittent lethal effects at or below the critical dilution, or for failure to perform the required retests.
- c. The provisions of item 2.a are suspended upon submittal of the TRE Action Plan.

3. REQUIRED TOXICITY TESTING CONDITIONS

a. . Test Acceptance

The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:

- i. Each toxicity test control (0% effluent) must have a survival equal to or greater than 90%.
- ii. The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent) for the <u>Daphnia pulex</u> survival test and Fathead minnow survival test.
- iii. The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, <u>unless</u> significant lethal effects are exhibited for the <u>Daphnia pulex</u> survival test and Fathead minnow survival test.

Test failure may not be construct or reported as invalid due to a coefficient of variation value of greater than 40%. A repeat test shall be conducted within the required reporting period of any test determined to be invalid.

b. Statistical Interpretation

For the <u>Daphnia pulex</u> survival test and the Fathead minnow survival test, the statistical analyses used to determine if there is a statistically significant difference between the control and the critical dilution shall be in accordance with the methods for determining the No Observed Effect Concentration (NOEC) as described in EPA-821-R-02-012, or the most recent update thereof.

If the conditions of Test Acceptability are met in Item 3.a above and the percent survival of the test organism is equal to or greater than 90% in the critical dilution concentration and all other concentrations, the test shall be considered to be a passing test, and the permittee shall report an NOEC of not less than the critical dilution for the DMR reporting requirements found in Item 4 below.

Part II
Page 22 of 31
Draft <u>LA0032328</u>; AI<u>19578</u>
PER19990002

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OTHER REQUIREMENTS (cont.)

c. <u>Dilution Water</u>

- i. Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness, and alkalinity to the closest downstream perennial water for;
 - A. toxicity tests conducted on effluent discharges to receiving water classified as intermittent streams; and
 - B. toxicity tests conducted on effluent discharges where no receiving water is available due to zero flow conditions.
- ii. If the receiving water is unsatisfactory as a result of instream toxicity (fails to fulfill the test acceptance criteria of item 3.a), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:
 - A. a synthetic dilution water control which fulfills the test acceptance requirements of item 3.a was run concurrently with the receiving water control;
 - B. the test indicating receiving water toxicity has been carried out to completion (i.e., 48 hours);
 - C. the permittee includes all test results indicating receiving water toxicity with the full report and information required by item 4 below; and
 - D. the synthetic dilution water shall have a pH, hardness, and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water.

d. Samples and Composites

- i. The permittee shall collect two flow-weighted 24-hour composite samples from the outfall(s) listed at item 1.a above. A 24-hour composite sample consists of a minimum of 4 effluent portions collected at equal time intervals representative of a 24-hour operating day and combined proportional to flow or a sample continuously collected proportional to flow over a 24-hour operating day.
- ii. The permittee shall collect a second 24-hour composite sample for use during the 24-hour renewal of each dilution concentration for both tests. The permittee must collect the 24-hour composite samples so that the maximum holding time for any effluent sample shall not exceed 36 hours. The permittee must have initiated the toxicity test within 36 hours after the collection of the last portion of the first 24-hour composite sample. Samples shall be chilled to 0-6 degrees Centigrade during collection, shipping and/or storage.
- iii. The permittee must collect the 24-hour composite samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on an intermittent basis.

Part II
Page 23 of 31
Draft <u>LA0032328</u>; Al<u>19578</u>
PER19990002

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OTHER REQUIREMENTS (cont.)

iv. If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions and the sample holding time are waived during that sampling period. However, the permittee must collect an effluent composite sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days. The effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report required in item 4 of this section.

4. REPORTING

a. A valid test must be submitted during each reporting period. The permittee shall prepare a full report of the results of all tests conducted pursuant to this Part in accordance with the Report Preparation Section of EPA-821-R-02-012, for every valid or invalid toxicity test initiated, whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of Part III.C of this permit. For any test which fails, is considered invalid, or which is terminated early for any reason, the full report must be submitted for agency review. The permittee shall submit the first full report to:

Department of Environmental Quality
Office of Environmental Compliance
P. O. Box 4312
Baton Rouge, Louisiana 70821-4312
Attn: Permit Compliance Unit

In addition, if enforcement authority has been retained by EPA, a copy of the report must also be submitted to the following address:

U.S. Environmental Protection Agency, Region 6
Water Enforcement Branch, 6 EN-WC
1445 Ross Ave.
Dallas, Texas 75202

- b. The permittee shall report the following results of each valid toxicity test on the subsequent monthly DMR for that reporting period in accordance with Part III.D of this permit. Submit retest information clearly marked as such with the following month's DMR. Only results of valid tests are to be reported on the DMR. The permittee shall submit the Table 1 Summary Sheet with each valid test.
 - i. <u>Pimephales promelas</u> (Fathead minnow)
 - A. If the No Observed Effect Concentration (NOEC) for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TEM6C.
 - B. Report the NOEC value for survival, Parameter No. TOM6C.
 - C. Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQM6C.
 - ii. <u>Daphnia pulex</u>

Part II
Page 24 of 31
Draft <u>LA0032328</u>; AI<u>19578</u>
PER19990002

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OTHER REQUIREMENTS (cont.)

- A. If the NOEC for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TEM3D.
- B. Report the NOEC value for survival, Parameter No. TOM3D.
- C. Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQM3D.
- iii. The permittee shall report the following results for all <u>VALID</u> toxicity <u>retests</u> on the DMR for that reporting period.
 - A. Retest #1 (STORET 22415): If the <u>first</u> monthly retest following failure of a routine test for either test species results in an NOEC for survival less than the critical dilution, report a "1"; otherwise, report a "0."
 - B. Retest #2 (STORET 22416): If the <u>second</u> monthly retest following failure of a routine test for either test species results in an NOEC for survival less than the critical dilution, report a "1"; otherwise, report a "0."
 - C. Retest #3 (STORET 51443): If the <u>third</u> monthly retest following failure of a routine test for either test species results in an NOEC for survival less than the critical dilution, report a "1", otherwise, report a "0".

If, for any reason, a retest cannot be performed during the reporting period in which the triggering routine test failure is experienced, the permittee shall report it on the following reporting period's DMR, and the comments section of both DMRs shall be annotated to that effect. If retesting is not required during a given reporting period, the permittee shall leave these DMR fields blank.

The permittee shall submit the toxicity testing information contained in Table 1 of this permit with the DMR subsequent to each and every toxicity test reporting period. The DMR and the summary table should be sent to the address indicated in 4.a. The permittee is not required to send the first complete report nor summary tables to EPA.

5. TOXICITY REDUCTION EVALUATION (TRE)

- a. Within ninety (90) days of confirming lethality in any retest, the permittee shall submit a Toxicity Reduction Evaluation (TRE) Action Plan and Schedule for conducting a TRE. The TRE Action Plan shall specify the approach and methodology to be used in performing the TRE. A Toxicity Reduction Evaluation is an investigation intended to determine those actions necessary to achieve compliance with water quality-based effluent limits by reducing an effluent's toxicity to an acceptable level. A TRE is defined as a step-wise process which combines toxicity testing and analyses of the physical and chemical characteristics of a toxic effluent to identify the constituents causing effluent toxicity and/or treatment methods which will reduce the effluent toxicity. The TRE Action Plan shall lead to the successful elimination of effluent toxicity at the critical dilution and include the following:
 - i. Specific Activities. The plan shall detail the specific approach the permittee intends to utilize in conducting the TRE. The approach may include toxicity characterizations, identifications and

Part II
Page 25 of 31
Draft <u>LA0032328</u>; Al<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

confirmation activities, source evaluation, treatability studies, or alternative approaches. When the permittee conducts Toxicity Characterization Procedures the permittee shall perform multiple characterizations and follow the procedures specified in the documents "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA-600/6-91/003) and "Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA-600/6-91/005), or alternate procedures. When the permittee conducts Toxicity Identification Evaluations and Confirmations, the permittee shall perform multiple identifications and follow the methods specified in the documents "Methods for Aquatic Toxicity Identification Evaluations," Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081), as appropriate;

The documents referenced above may be obtained through the <u>National Technical Information Service</u> (NTIS) by phone at 1-800-553-6847, or by writing:

U.S. Department of Commerce National Technical Information Service 5285 Port Royal Road Springfield, VA 22161

ii. Sampling Plan (e.g., locations, methods, holding times, chain of custody, preservation, etc.). The effluent sample volume collected for all tests shall be adequate to perform the toxicity test, toxicity characterization, identification and confirmation procedures, and conduct chemical specific analyses when a probable toxicant has been identified;

Where the permittee has identified or suspects specific pollutant(s) and/or source(s) of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical specific analyses for the identified and/or suspected pollutant(s) and/or source(s) of effluent toxicity. Where lethality was demonstrated within 24 hours of test initiation, each 24-hour composite sample shall be analyzed independently. Otherwise the permittee may substitute a composite sample, comprised of equal portions of the individual 24-hour composite samples, for the chemical specific analysis;

- iii. Quality Assurance Plan (e.g., QA/QC implementation, corrective actions, etc.); and
- iv. Project Organization (e.g., project staff, project manager, consulting services, etc.).
- b. The permittee shall initiate the TRE Action Plan within thirty (30) days of plan and schedule submittal. The permittee shall assume all risks for failure to achieve the required toxicity reduction.
- c. The permittee shall submit a quarterly TRE Activities Report, with the Discharge Monitoring Report in the months of January, April, July, and October, containing information on toxicity reduction evaluation activities including:
 - i. any data and/or substantiating documentation which identifies the pollutant(s) and/or source(s) of effluent toxicity;

Part II
Page 26 of 31
Draft <u>LA0032328</u>; AI<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

- ii. any studies/evaluations and results on the treatability of the facility's effluent toxicity; and
- iii. any data which identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution.

The TRE Activities Report shall be submitted to the following addresses:

Department of Environmental Quality
Office of Environmental Compliance
P.O. Box 4312
Baton Rouge, Louisiana 70821-4312
Attn: Permit Compliance Unit

U.S. Environmental Protection Agency, Region 6
Water Enforcement Branch
1445 Ross Avenue
Dallas, Texas 75202

d. The permittee shall submit a Final Report on Toxicity Reduction Evaluation Activities no later than twenty-eight (28) months from confirming lethality in the retests, which provides information pertaining to the specific control mechanism selected that will, when implemented, result in reduction of effluent toxicity to no significant lethality at the critical dilution. The report will also provide a specific corrective action schedule for implementing the selected control mechanism.

A copy of the Final Report on Toxicity Reduction Evaluation Activities shall also be submitted to the above addresses.

e. Quarterly testing during the TRE is a minimum monitoring requirement. EPA recommends that permittees required to perform a TRE not rely on quarterly testing alone to ensure success in the TRE, and that additional screening tests be performed to capture toxic samples for identification of toxicants. Failure to identify the specific chemical compound causing toxicity test failure will normally result in a permit limit for whole effluent toxicity limits per federal regulations at 40 CFR 122.44(d)(1)(v).

Part II Page 27 of 31 Draft <u>LA0032328</u>; Al<u>19578</u> <u>PER19990002</u>

OTHER REQUIREMENTS (cont.)

TABLE 1 SUMMARY SHEET Daphnia pulex ACUTE SURVIVAL TEST RESULTS

PERMITTEE:							
FACILITY SHE:							
NPDES PERMIT NUMBER:				_WP PERMI	T NUMBER		
OUTFALL IDENTIFICATION:	<u></u>						
NPDES PERMIT NUMBER: OUTFALL IDENTIFICATION: OUTFALL SAMPLE IS FROM		SN	NGLE			MULTIPLE DI	SCHARGE
BIOMONITORING LABORAT	ORY:						
BIOMONITORING LABORAT DILUTION WATER USED:		_RECEIVIN	G WATER			LAB W	/ATER
CRITICAL DILUTION			%	DATE TES	T INITIATE	D	
1. LOW-FLOW LETHALIT	Y:						
Is the mean survival at 48 ho					al for the low	flow or critical	dilution?
		ION SERIE				1/	ล
TIME OF REI READING	0%11						
2440UR							
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	1						
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484 10 000							
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							Į
MEAN							
L STATE OF THE STA	MACONET H	<u> </u>	<u></u>	<u> </u>	l <u></u>	<u></u>]
2. Are the test results to be cons	dered valid?	_Yes	No If_	X_no (test i	nvalid) , wha	t reasons for inv	alidity?
3. Is this a retest of a previous in	valid test?	Vec	No				
Is this a retest of a previous to			No				
4. Enter percent effluent corresp	onding to each	NOEC (No C				phnia pulex:	
NOEC% EFFLUI	ENT		LC ₅₀ 48	%	EFFLUENT		

Part II
Page 28 of 31
Draft <u>LA0032328</u>; Al<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

TABLE 1 SUMMARY SHEET Pimephales promelas ("fathead minnow") ACUTE SURVIVAL TEST

PERMITTEE:							
TACILIT SILE.							
NPDES PERMIT NUMBER:	NPDES PERMIT NUMBER: WP PERMIT NUMBER:						
OUTFALL SAMPLE IS FROM			CINICI	E		MULTIPLE DIS	CHARGE
BIOMONITORING LABORATO	ORY:						
DILUTION WATER USED:	··-····	RE	CEIVING W	ATER		LAB	WATER
BIOMONITORING LABORATO DILUTION WATER USED: CRITICAL DILUTION			% DAT	E TEST INI	ȚIATED		
1. LOW-FLOW LETHALITY							
Is the mean survival at 48 hou dilution?Yes	No				(low-flow or crit	ical
		ON SERIES					1
TIME OF REP READING	0%		1,441 3	Arai ric	142 de 1880 de		
24-HOUR					MILES COM CARROLL		
				<u> </u>			
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。 [1] 聚模:基键块第 			<u> </u>				
48-HOUR							7.5
							`,
				"			
MEAN MEAN							
	<u> </u>			<u> </u>	<u> </u>		
3. Are the test results to be consid	dered valid?	Yes	No If	X no (test i	invalid) wha	t reasons for inv	aliditu?
			,	71 110 (test)	invand), wha	reasons for my	anuny:
4. Is this a retest of a previous inv Is this a retest of a previous tes		Yes		No No	,		
5.77							
5. Enter percent effluent correspon	iding to each N UENT	OEC (No O	bserved Effe LC5048		tion) for <u>Pim</u> EFFLUENT	ephales:	
				.,			

Part II Page 29 of 31 Draft <u>LA0032328</u>; Al<u>19578</u> PER19990002

OTHER REQUIREMENTS (cont.)

SECTION F. STORMWATER DISCHARGES

- 1. This section applies to all stormwater discharges from the facility, either through permitted outfalls or through outfalls which are not listed in the permit or as sheet flow.
- 2. Any runoff leaving the developed areas of the facility, other than the permitted outfall(s), exceeding 50 mg/L TOC, 15 mg/L Oil and Grease, or having a pH less than 6.0 or greater than 9.0 standard units shall be a violation of this permit. Any discharge in excess of these limitations, which is attributable to offsite contamination, shall not be considered a violation of this permit. A visual inspection of the facility shall be conducted and a report made annually as described in Paragraph 4 below.
- 3. The permittee shall prepare, implement, and maintain a Storm Water Pollution Prevention Plan (SWP3) within six (6) months of the effective date of the final permit. The terms and conditions of the SWP3 shall be an enforceable Part of the permit. EPA document 833-R-92-002 (Storm Water Management for Industrial Activities) may be used as a guidance and may be obtained by writing to the U.S. Environmental Protection Agency, Office of Water Resources (RC-4100), 401 M Street, S.W., Washington D.C. 20460 or by calling (202) 260-7786.
- 4. The following conditions are applicable to all facilities and shall be included in the SWP3 for the facility.
 - a. The permittee shall conduct an annual inspection of the facility site to identify areas contributing to the storm water discharge from developed areas of the facility and evaluate whether measures to reduce pollutant loadings identified in the SWP3 are adequate and have been properly implemented in accordance with the terms of the permit or whether additional control measures are needed.
 - b. The permittee shall develop a site map that includes all areas where stormwater may contact potential pollutants or substances that can cause pollution. Any location where reportable quantities leaks or spills have previously occurred are to be documented in the SWP3. The SWP3 shall contain a description of the potential pollutant sources, including, the type and quantity of material present and what action has been taken to assure stormwater precipitation will not directly contact the substances and result in contaminated runoff.
 - c. Where experience indicates a reasonable potential for equipment failure (e.g. a tank overflow or leakage), natural condition of (e.g. precipitation), or other circumstances which result in significant amounts of pollutants reaching surface waters, the SWP3 should include a prediction of the direction, rate of flow and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.
 - d. The permittee shall maintain for a period of three years a record summarizing the results of the inspection and a certification that the facility is in compliance with the SWP3 and the permit, and identifying any incidents of noncompliance. The summary report should contain, at a minimum, the date and time of inspection, name of inspector(s), conditions found, and changes to be made to the SWP3.
 - e. The summary report and the following certification shall be signed in accordance with LAC 33:IX.2503. The summary report is to be attached to the SWP3 and provided to the Department upon request.
 - "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the

Part II
Page 30 of 31
Draft <u>LA0032328</u>; Al<u>19578</u>
PER19990002

OTHER REQUIREMENTS (cont.)

information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signatory requirements for the certification may be found in Part III, Section D.10 of this permit.

- f. The permittee shall make available to the Department, upon request, a copy of the SWP3 and any supporting documentation.
- 5. The following shall be included in the SWP3, if applicable.
 - a. The permittee shall utilize all reasonable methods to minimize any adverse impact on the drainage system including but not limited to:
 - maintaining adequate roads and driveway surfaces;
 - ii. removing debris and accumulated solids from the drainage system; and
 - iii. cleaning up immediately any spill by sweeping, absorbent pads, or other appropriate methods.
 - b. All spilled product and other spilled wastes shall be immediately cleaned up and disposed of according to all applicable regulations, Spill Prevention and Control (SPC) plans or Spill Prevention Control and Countermeasures (SPCC) plans. Use of detergents, emulsifiers, or dispersants to clean up spilled product is prohibited except where necessary to comply with State or Federal safety regulations (i.e., requirement for non-slippery work surface). In all such cases, initial cleanup shall be done by physical removal and chemical usage shall be minimized.
 - c. All equipment, parts, dumpsters, trash bins, petroleum products, chemical solvents, detergents, or other materials exposed to stormwater shall be maintained in a manner which prevents contamination of stormwater by pollutants.
 - d. All waste fuel, lubricants, coolants, solvents, or other fluids used in the repair or maintenance of vehicles or equipment shall be recycled or contained for proper disposal. Spills of these materials are to be cleaned up by dry means whenever possible.
 - e. All storage tank installations (with a capacity greater than 660 gallons for an individual container, or 1,320 gallons for two or more containers in aggregate within a common storage area) shall be constructed so that a secondary means of containment is provided for the entire contents of the largest tank plus sufficient freeboard to allow for precipitation. Diked areas should be sufficiently impervious to contain spills.
 - f. All diked areas surrounding storage tanks or stormwater collection basins shall be free of residual oil or other contaminants so as to prevent the accidental discharge of these materials in the event of flooding, dike failure, or improper draining of the diked area. All drains from diked areas shall be equipped with valves that shall be kept in the closed condition except during periods of supervised discharge.
 - g. All check valves, tanks, drains, or other potential sources of pollutant releases shall be inspected and maintained on a regular basis to assure their proper operation and to prevent the discharge of pollutants.
 - h. The permittee shall assure compliance with all applicable regulations promulgated under the Louisiana Solid Waste and Resource Recovery Law and the Hazardous Waste Management Law (L.R.S. 30:2151, etc.). Management practices required under above regulations shall be referenced in the SWP3.

Part II Page 31 of 31 Draft <u>LA0032328</u>; AI<u>19578</u> PER19990002

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OTHER REQUIREMENTS (cont.)

- i. The permittee shall amend the SWP3 whenever there is a change in the facility or change in the operation of the facility that materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.
- j. If the SWP3 proves to be ineffective in achieving the general objectives of preventing the release of significant amounts of pollutants to water of the state, then the specific objectives and requirements of the SWP3 shall be subject to modification to incorporate revised SWP3 requirements.
- 6. Facility Specific SWP3 Conditions:
 - a. Site Map. The locations of the following areas, where such areas are exposed to precipitation, shall also be included on the site map: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage and/or hauled waste receiving station; and storage areas for process chemicals, petroleum products, solvents, fertilizers, herbicides and pesticides.
 - b. **Employee Training.** At a minimum, must address the following areas when applicable to a facility: petroleum product management; process chemical management; spill prevention and controls; fueling procedures; general good housekeeping practices; proper procedures for using fertilizer, herbicides and pesticides.
 - c. Potential Pollutant Sources. The summary of potential pollutant sources must also list the activities and pollutants from the following areas: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage and/or hauled waste receiving station; and access roads/rail lines.
 - d. **Description of BMPs to be Used.** In addition to the other BMPs considered, the facility must consider routing storm water into treatment works, or covering exposed materials from the following exposed areas: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage and/or hauled waste receiving station.
 - e. **Inspections:** The following areas must be included in all monthly inspections: access roads/rail lines; grit, screenings and other solids handling, storage or disposal areas; sludge drying beds, dried sludge piles; compost piles; septage and/or hauled waste receiving station areas.
 - f. Wastewater and Washwater Requirements. If washwaters are handled in another manner other than the treatment works, the disposal method must be described and all pertinent documentation must be attached to the plan.

PART III STANDARD CONDITIONS FOR LPDES PERMITS

SECTION A. GENERAL CONDITIONS

1. Introduction

In accordance with the provisions of LAC 33:IX.2701, et seq., this permit incorporates either expressly or by reference ALL conditions and requirements applicable to Louisiana Pollutant Discharge Elimination System Permits (LPDES) set forth in the Louisiana Environmental Quality Act (LEQA), as amended, as well as ALL applicable regulations.

2. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act (CWA) and the Louisiana Environmental Quality Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

3. Penalties for Violation of Permit Conditions

- a. LA. R. S. 30:2025 provides for civil penalties for violations of these regulations and the Louisiana Environmental Quality Act. LA. R. S. 30:2076.2 provides for criminal penalties for violation of any provisions of the LPDES or any order or any permit condition or limitation issued under or implementing any provisions of the LPDES program. (See Section E. Penalties for Violation of Permit Conditions for additional details).
- Any person may be assessed an administrative penalty by the State Administrative Authority under LA.
 R. S. 30:2025 for violating a permit condition or limitation implementing any of the requirements of the LPDES program in a permit issued under the regulations or the Louisiana Environmental Quality Act.

4. Toxic Pollutants

- a. Other effluent limitations and standards under Sections 301, 302, 303, 307, 318, and 405 of the Clean Water Act. If any applicable toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under Section 307(a) of the Clean Water Act for a toxic pollutant and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, the state administrative authority shall institute proceedings under these regulations to modify or revoke and reissue the permit to conform to the toxic effluent standard or prohibition.
- b. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions, or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.

Duty to Reapply

a. Individual Permits. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The new application shall be submitted at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the state administrative authority shall not grant permission for applications to be submitted later than the expiration date of the existing permit.) Continuation of expiring permits shall be governed by regulations promulgated at LAC 33:IX.2321 and any subsequent amendments.

b. General Permits. General permits expire five years after the effective date. The 180-day reapplication period as defined above is not applicable to general permit authorizations. Reissued general permits may provide automatic coverage for permittees authorized under the previous version of the permit, and no new application is required. Requirements for obtaining authorization under the reissued general permit will be outlined in Part I of the new permit. Permittees authorized to discharge under an expiring general permit should follow the requirements for obtaining coverage under the new general permit to maintain discharge authorization.

6. Permit Action

This permit may be modified, revoked and reissued, or terminated for cause in accordance with LAC 33:IX.2903, 2905, 2907, 3105 and 6509. The causes may include, but are not limited to, the following:

- a. Noncompliance by the permittee with any condition of the permit;
- b. The permittee's failure in the application or during the permit issuance process to disclose fully all relevant facts, or the permittee's misrepresentation of any relevant facts at any time;
- c. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination;
- d. A change in any condition that requires either a temporary or a permanent reduction or elimination of any discharge; or
- e. Failure to pay applicable fees under the provisions of LAC 33: IX. Chapter 13;
- f. Change of ownership or operational control;

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

7. Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

Duty to Provide Information :

The permittee shall furnish to the state administrative authority, within a reasonable time, any information which the state administrative authority may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the state administrative authority, upon request, copies of records required to be kept by this permit.

9. Criminal and Civil Liability

Except as provided in permit conditions on "Bypassing" and "Upsets", nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Any false or materially misleading representation or concealment of information required to be reported by the provisions of the permit, the Act, or applicable regulations, which avoids or effectively defeats the regulatory purpose of the Permit may subject the Permittee to criminal enforcement pursuant to La. R.S. 30:2025.

10. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act.

11. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Clean Water Act.

12. Severability

If any provision of these rules and regulations, or the application thereof, is held to be invalid, the remaining provisions of these rules and regulations shall not be affected, so long as they can be given effect without the invalid provision. To this end, the provisions of these rules and regulations are declared to be severable.

13. Dilution

A permittee shall not achieve any effluent concentration by dilution unless specifically authorized in the permit. A permittee shall not increase the use of process water or cooling water or otherwise attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve permit limitations or water quality.

14. Facilities Requiring Approval from Other State Agencies

In accordance with La R.S.40.4(A)(6) the plans and specifications of all sanitary sewerage treatment systems, both public and private, must be approved by the Department of Health and Hospitals state health officer or his designee. It is unlawful for any person, firm, or corporation, both municipal and private to operate a sanitary sewage treatment facility without proper authorization from the state health officer.

In accordance with La R.S.40.1149, it is unlawful for any person, firm or corporation, both municipal and private, operating a sewerage system to operate that system unless the competency of the operator is duly certified by the Department of Health and Hospitals state health officer. Furthermore, it is unlawful for any person to perform the duties of an operator without being duly certified.

In accordance with La R.S.48.385, it is unlawful for any industrial wastes, sewage, septic tanks effluent, or any noxious or harmful matter, solid, liquid or gaseous to be discharged into the side or cross ditches or placed upon the rights-of-ways of state highways without the prior written consent of the Department of Transportation and Development chief engineer or his duly authorized representative and of the secretary of the Department of Health and Hospitals.

SECTION B. PROPER OPERATION AND MAINTENANCE

Need to Halt or Reduce not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

2. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. The permittee shall also take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with the permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

Proper Operation and Maintenance

- a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
- b. The permittee shall provide an adequate operating staff which is duly qualified to carry out operation, maintenance and other functions necessary to ensure compliance with the conditions of this permit.

4. Bypass of Treatment Facilities

- a. <u>Bypass</u>. The intentional diversion of waste streams from any portion of a treatment facility.
- b. <u>Bypass not exceeding limitations</u>. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Section B.4.c. and 4.d of these standard conditions.

c. Notice

- (1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Office of Environmental Services, Water Permits Division, if possible at least ten days before the date of the bypass.
- (2) <u>Unanticipated bypass</u>. The permittee shall submit notice of an unanticipated bypass as required in LAC 33:IX.2701.L.6, (24-hour notice) and Section D.6.e. of these standard conditions.

d. Prohibition of bypass

- (1) Bypass is prohibited, and the state administrative authority may take enforcement action against a permittee for bypass, unless:
 - (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,
 - (c) The permittee submitted notices as required by Section B.4.c of these standard conditions.
- (2) The state administrative authority may approve an anticipated bypass after considering its adverse effects, if the state administrative authority determines that it will meet the three conditions listed in Section B.4.d(1) of these standard conditions.

5. Upset Conditions

- a. <u>Upset</u>. An exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- b. <u>Effect of an upset</u>. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Section B.5.c. are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- c. <u>Conditions necessary for a demonstration of upset</u>. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated; and
 - (3) The permittee submitted notice of the upset as required by LAC 33:IX.2701.L.6.b.ii. and Section D.6.e.(2) of these standard conditions; and

- (4) The permittee complied with any remedial measures required by Section B.2 of these standard conditions.
- d. <u>Burden of proof</u>. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

6. Removed Substances

Solids, sewage sludges, filter backwash, or other pollutants removed in the course of treatment or wastewater control shall be properly disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the state and in accordance with environmental regulations.

7. Percent Removal

For publicly owned treatment works, the 30-day average percent removal for Biochemical Oxygen Demand and Total Suspended Solids shall not be less than 85 percent in accordance with LAC 33:IX.5905.A.3. and B.3.

SECTION C. MONITORING AND RECORDS

1. Inspection and Entry

The permittee shall allow the state administrative authority or an authorized representative (including an authorized contractor acting as a representative of the Administrator), upon the presentation of credentials and other documents as may be required by the law to:

a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.

Enter upon the permittee's premises where a discharge source is or might be located or in which monitoring equipment or records required by a permit are kept for inspection or sampling purposes. Most inspections will be unannounced and should be allowed to begin immediately, but in no case shall begin more than thirty (30) minutes after the time the inspector presents his/her credentials and announces the purpose(s) of the inspection. Delay in excess of thirty (30) minutes shall constitute a violation of this permit. However, additional time can be granted if the inspector or the Administrative Authority determines that the circumstances warrant such action; and

- b. Have access to and copy, at reasonable times, any records that the department or its authorized representative determines are necessary for the enforcement of this permit. For records maintained in either a central or private office that is open only during normal office hours and is closed at the time of inspection, the records shall be made available as soon as the office is open, but in no case later than the close of business the next working day;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or the Louisiana Environmental Quality Act, any substances or parameters at any location.

e. Sample Collection

- (1) When the inspector announces that samples will be collected, the permittee will be given an additional thirty (30) minutes to prepare containers in order to collect duplicates. If the permittee cannot obtain and prepare sample containers within this time, he is considered to have waived his right to collect duplicate samples and the sampling will proceed immediately. Further delay on the part of the permittee in allowing initiation of the sampling will constitute a violation of this permit.
- (2) At the discretion of the administrative authority, sample collection shall proceed immediately (without the additional 30 minutes described in Section C.1.a. above) and the inspector shall supply the permittee with a duplicate sample.

- f. It shall be the responsibility of the permittee to ensure that a facility representative familiar with provisions of its wastewater discharge permit, including any other conditions or limitations, be available either by phone or in person at the facility during all hours of operation. The absence of such personnel on-site who are familiar with the permit shall not be grounds for delaying the initiation of an inspection except in situations as described in Section C.1.b. of these standard conditions. The permittee shall be responsible for providing witnesses/escorts during inspections. Inspectors shall abide by all company safety rules and shall be equipped with standard safety equipment (hard hat, safety shoes, safety glasses) normally required by industrial facilities.
- g. Upon written request copies of field notes, drawings, etc., taken by department personnel during an inspection shall be provided to the permittee after the final inspection report has been completed.

2. Representative Sampling

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. All samples shall be taken at the outfall location(s) indicated in the permit. The state administrative authority shall be notified prior to any changes in the outfall location(s). Any changes in the outfall location(s) may be subject to modification, revocation and reissuance in accordance with LAC 33:IX.2903.

3. Retention of Records

Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the state administrative authority at any time.

4. Record Contents

Records of monitoring information shall include:

- a. The date, exact place, and time of sampling or measurements;
- b. The individual(s) who performed the sampling or measurements;
- c. The date(s) analyses were performed:
- d. The time(s) analyses were begun;
- e. The individual(s) who performed the analyses;
- f. The analytical techniques or methods used:
- g. The results of such analyses; and
- h. The results of all quality control procedures.

5. Monitoring Procedures

- a. Monitoring results must be conducted according to test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, unless other test procedures have been specified in this permit.
- b. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instruments at intervals frequent enough to insure accuracy of measurements and shall maintain appropriate records of such activities.
- c. The permittee or designated laboratory shall have an adequate analytical quality assurance/quality control program to produce defensible data of know precision and accuracy. All quality control measures shall be assessed and evaluated on an on-going basis and quality control acceptance criteria shall be used to determine the validity of the data. All method specific quality control as prescribed in the method shall be followed. If quality control requirements are not included in the method, the permittee or designated laboratory shall follow the quality control requirements as prescribed in the Approved Edition (40 CFR Part 136) Standard Methods for the Examination of Water and Wastes, Sections 1020A and 1020B. General sampling protocol shall follow guidelines established in the

"Handbook for Sampling and Sample Preservation of Water and Wastewater, 1982 "U.S. Environmental Protection Agency. This publication is available from the National Technical Information Service (NTIS), Springfield, VA 22161, Phone number (800) 553-6847. Order by NTIS publication number PB-83-124503.

6. Flow Measurements

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to insure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes. Guidance in selection, installation, calibration and operation of acceptable flow measurement devices can be obtained from the following references:

- a. "A Guide to Methods and Standards for the Measurement of Water Flow, 1975," U.S. Department of Commerce, National Bureau of Standards. This publication is available from the National Technical Information Service (NTIS), Springfield, VA 22161, Phone number (800) 553-6847. Order by NTIS publication number COM-75-10683.
- b. "Flow Measurement in Open Channels and Closed Conduits, Volumes 1 and 2," U.S. Department of Commerce, National Bureau of Standards. This publication is available from the National Technical Service (NTIS), Springfield, VA, 22161, Phone number (800) 553-6847. Order by NTIS publication number PB-273 535.
- c. "NPDES Compliance Flow Measurement Manual," U.S. Environmental Protection Agency, Office of Water Enforcement. This publication is available from the National Technical Information Service (NTIS), Springfield, VA 22161, Phone number (800) 553-6847. Order by NTIS publication number PB-82-131178.

7. Prohibition for Tampering: Penalties

- a. LA R.S. 30:2025 provides for punishment of any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit.
- b. LA R.S. 30:2076.2 provides for penalties for any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non compliance.

8. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR Part 136 (See LAC 33:IX.4901) or, in the case of sludge use and disposal, approved under 40 CFR Part 136 (See LAC 33:IX.4901) unless otherwise specified in 40 CFR Part 503, or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the state administrative authority.

Averaging of Measurements

Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the state administrative authority in the permit.

10. Laboratory Accreditation

- a. LAC 33:I.Subpart 3, Chapters 45-59 provide requirements for an accreditation program specifically applicable to commercial laboratories, wherever located, that provide chemical analyses, analytical results, or other test data to the department, by contract or by agreement, and the data is:
 - (1) Submitted on behalf of any facility, as defined in R.S.30:2004;
 - (2) Required as part of any permit application:
 - (3) Required by order of the department;
 - (4) Required to be included on any monitoring reports submitted to the department;
 - (5) Required to be submitted by contractor
 - (6) Otherwise required by department regulations.

b. The department laboratory accreditation program, Louisiana Environmental Laboratory Accreditation Program (LELAP) is designed to ensure the accuracy, precision, and reliability of the data generated, as well as the use of department-approved methodologies in generation of that data. Laboratory data generated by commercial environmental laboratories that are not (LELAP) accredited will not be accepted by the department. Retesting of analysis will be required by an accredited commercial laboratory.

Where retesting of effluent is not possible (i.e. data reported on DMRs for prior month's sampling), the data generated will be considered invalid and in violation of the LPDES permit.

c. Regulations on the Louisiana Environmental Laboratory Accreditation Program and a list of labs that have applied for accreditation are available on the department website located under DIVISIONS > LABORATORY SERVICES at the following link:

http://www.deq.louisiana.gov

Questions concerning the program may be directed to (225) 219-9800.

SECTION D. REPORTING REQUIREMENTS

1. Facility Changes

The permittee shall give notice to the state administrative authority as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under LAC 33:IX.2703.A.1.
- c. For Municipal Permits. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to Section 301, or 306 of the CWA if it were directly discharging those pollutants; and any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit. In no case are any new connections, increased flows, or significant changes in influent quality permitted that will cause violation of the effluent limitations specified herein.

2. Anticipated Noncompliance

The permittee shall give advance notice to the state administrative authority of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. Transfers

This permit is not transferable to any person except after notice to the state administrative authority. The state administrative authority may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act or the Louisiana Environmental Quality Act. (See LAC 33:IX.2901; in some cases, modification or revocation and reissuance is mandatory.)

A permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued (under LAC 33:IX.2903. A.2.b), or a minor modification made (under LAC 33:IX.2905) to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act and the Louisiana Environmental Quality Act.

4. Monitoring Reports

Monitoring results shall be reported at the intervals and in the form specified in Part I or Part II of this permit.

The permittee shall submit properly completed Discharge Monitoring Reports (DMRs) on the form specified in the permit. Preprinted DMRs are provided to majors/92-500's and other designated facilities. Please contact the Permit Compliance Unit concerning preprints. Self-generated DMRs must be pre-approved by the Permit Compliance Unit prior to submittal. Self-generated DMRs are approved on an individual basis. Requests for approval of self-generated DMRs should be submitted to:

Supervisor, Permit Compliance Unit Office of Environmental Compliance Post Office Box 4312 Baton Rouge, LA 70821-4312

Copies of blank DMR templates, plus instructions for completing them, and EPA's LPDES Reporting Handbook are available at the department website located at:

http://www.deq.louisiana.gov/portal/Default.aspx?tabid=2276

5. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

6. Requirements for Notification

a. Emergency Notification

As required by LAC 33.1.3915, in the event of an unauthorized discharge that does cause an emergency condition, the discharger shall notify the hotline (DPS 24-hour Louisiana Emergency Hazardous Materials Hotline) by telephone at (225) 925-6595 (collect calls accepted 24 hours a day) immediately (a reasonable period of time after taking prompt measures to determine the nature, quantity, and potential off-site impact of a release, considering the exigency of the circumstances), but in no case later than one hour after learning of the discharge. (An emergency condition is any condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water, or air environment, or cause severe damage to property.) Notification required by this section will be made regardless of the amount of discharge. Prompt Notification Procedures are listed in Section D.6.c. of these standard conditions.

A written report shall be provided within seven calendar days after the notification. The report shall contain the information listed in Section D.6.d. of these standard conditions and any additional information in LAC 33:1.3925.B.

b. Prompt Notification

As required by LAC 33:I.3917, in the event of an unauthorized discharge that exceeds a reportable quantity specified in LAC 33:I.Subchapter E, but does not cause an emergency condition, the discharger shall promptly notify the department within 24 hours after learning of the discharge. Notification should be made to the Office of Environmental Compliance, Surveillance Division Single Point of Contact (SPOC) in accordance with LAC 33:I.3923.

In accordance with LAC 33:1.3923, prompt notification shall be provided within a time frame not to exceed 24 hours and shall be given to the Office of Environmental Compliance, Surveillance Division Single Point of Contact (SPOC) as follows:

(1) by the Online Incident Reporting screens found at http://www3.deq.louisiana.gov/surveillance/irf/forms/; or

- (2) by e-mail utilizing the Incident Report Form and instructions found at http://www.deq.louisiana.gov/portal/Default.aspx?tabid=279;or
- (3) by telephone at (225) 219-3640 during office hours, or (225) 342-1234 after hours and on weekends and holidays.
- c. <u>Content of Prompt Notifications</u>. The following guidelines will be utilized as appropriate, based on the conditions and circumstances surrounding any unauthorized discharge, to provide relevant information regarding the nature of the discharge:
 - (1) the name of the person making the notification and the telephone number where any return calls from response agencies can be placed:
 - (2) the name and location of the facility or site where the unauthorized discharge is imminent or has occurred, using common landmarks. In the event of an incident involving transport, include the name and address of the transporter and generator;
 - (3) the date and time the incident began and ended, or the estimated time of continuation if the discharge is continuing;
 - (4) the extent of any injuries and identification of any known personnel hazards that response agencies may face;
 - (5) the common or scientific chemical name, the U.S. Department of Transportation hazard classification, and the best estimate of amounts of any and all discharged pollutants:
 - (6) a brief description of the incident sufficient to allow response agencies to formulate their level and extent of response activity.
- d. Written Notification Procedures. Written reports for any unauthorized discharge that requires notification under Section D.6.a. or 6.b., or shall be submitted by the discharger to the Office of Environmental Compliance, Surveillance Division SPOC in accordance with LAC 33:IX.3925 within seven calendar days after the notification required by D.6.a. or 6.b., unless otherwise provided for in a valid permit or other department regulation. Written notification reports shall include, but not be limited to, the following information:
 - (1) the name, address, telephone number, Agency Interest (AI) number (number assigned by the department) if applicable, and any other applicable identification numbers of the person, company, or other party who is filing the written report, and specific identification that the report is the written follow-up report required by this section;
 - (2) the time and date of prompt notification, the state official contacted when reporting, the name of person making that notification, and identification of the site or facility, vessel, transport vehicle, or storage area from which the unauthorized discharge occurred;
 - (3) date(s), time(s), and duration of the unauthorized discharge and, if not corrected, the anticipated time it is expected to continue;
 - (4) details of the circumstances (unauthorized discharge description and root cause) and events leading to any unauthorized discharge, including incidents of loss of sources of radiation, and if the release point is subject to a permit:
 - (a) the current permitted limit for the pollutant(s) released; and
 - (b) the permitted release point/outfall ID.
 - (5) the common or scientific chemical name of each specific pollutant that was released as the result of an unauthorized discharge, including the CAS number and U.S. Department of Transportation hazard classification, and the best estimate of amounts of any and all released pollutants (total amount of each compound expressed in pounds, including calculations);

- (6) a statement of the actual or probable fate or disposition of the pollutant or source of radiation and what off-site impact resulted;
- (7) remedial actions taken, or to be taken, to stop unauthorized discharges or to recover pollutants or sources of radiation.
- (8) Written notification reports shall be submitted to the Office of Environmental Compliance, Surveillance Division SPOC by mail or fax. The transmittal envelope and report or fax cover page and report should be clearly marked "UNAUTHORIZED DISCHARGE NOTIFICATION REPORT."

Please see LAC 33:1.3925.B for additional written notification procedures.

- e. Twenty-four Hour Reporting. The permittee shall report any noncompliance which may endanger human health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and; steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The following shall be included as information which must be reported within 24hours:
 - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit (see LAC 33:IX.2701.M.3.b.);
 - (2) Any upset which exceeds any effluent limitation in the permit;
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the state administrative authority in Part II of the permit to be reported within 24 hours (LAC 33:IX.2707.G.).

7. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Section D.4., 5., and 6., at the time monitoring reports are submitted. The reports shall contain the information listed in Section D.6.e.

8. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the state administrative authority, it shall promptly submit such facts or information.

9. <u>Discharges of Toxic Substances</u>

In addition to the reporting requirements under Section D.1-8, all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Office of Environmental Services, Water Permits Division as soon as they know or have reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant:
 - i. listed at LAC 33:IX.7107, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - (1) One hundred micrograms per liter (100 μg/L);
 - (2) Two hundred micrograms per liter (200 μg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 μg/L) for 2,4 -dinitro-phenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with LAC33:IX.2501.G.7; or
 - (4) The level established by the state administrative authority in accordance with LAC 33:IX.2707.F; or
 - ii. which exceeds the reportable quantity levels for pollutants at LAC 33:1. Subchapter E.

- b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant:
 - i. listed at LAC 33:IX.7107, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) Five hundred micrograms per liter (500 μg/L);
 - (2) One milligram per liter (1 mg/L) for antimony;
 - (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with LAC 33:IX.2501.G.7; or
 - (4) The level established by the state administrative authority in accordance with LAC 33:IX.2707.F; or
 - ii. which exceeds the reportable quantity levels for pollutants at LAC 33:1. Subchapter E.

10. Signatory Requirements

All applications, reports, or information submitted to the state administrative authority shall be signed and certified.

- a. All permit applications shall be signed as follows:
 - (1) For a corporation by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - (a) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or,
 - (b) The manager of one or more manufacturing, production, or operating facilities, provided: the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations and initiating and directing other comprehensive measures to ensure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and the authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

NOTE: DEQ does not require specific assignments or delegations of authority to responsible corporate officers identified in Section D.10.a.(1)(a). The agency will presume that these responsible corporate officers have the requisite authority to sign permit applications unless the corporation has notified the state administrative authority to the contrary. Corporate procedures governing authority to sign permit applications may provide for assignment or delegation to applicable corporate positions under Section D.10.a.(1)(b) rather than to specific individuals.

- (2) For a partnership or sole proprietorship by a general partner or the proprietor, respectively; or
- (3) For a municipality, state, federal, or other public agency by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes:
 - (a) The chief executive officer of the agency, or
 - (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).
- b. All reports required by permits and other information requested by the state administrative authority shall be signed by a person described in Section D.10.a., or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - (1) The authorization is made in writing by a person described in Section D.10.a. of these standard conditions;

- (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company, (a duly authorized representative may thus be either a named individual or an individual occupying a named position; and,
- (3) The written authorization is submitted to the state administrative authority.
- c. <u>Changes to authorization</u>. If an authorization under Section D.10.b. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Section D.10.b. must be submitted to the state administrative authority prior to or together with any reports, information, or applications to be signed by an authorized representative.
- d. <u>Certification</u>. Any person signing a document under Section D.10. a. or b. above, shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

11. Availability of Reports

All recorded information (completed permit application forms, fact sheets, draft permits, or any public document) not classified as confidential information under R.S. 30:2030(A) and 30:2074(D) and designated as such in accordance with these regulations (LAC 33:1X.2323 and LAC 33:1X.6503) shall be made available to the public for inspection and copying during normal working hours in accordance with the Public Records Act, R.S. 44:1 et seq.

Claims of confidentiality for the following will be denied:

- a. The name and address of any permit applicant or permittee;
- b. Permit applications, permits, and effluent data.
- c. Information required by LPDES application forms provided by the state administrative authority under LAC 33:IX.2501 may not be claimed confidential. This includes information submitted on the forms themselves and any attachments used to supply information required by the forms.

SECTION E. PENALTIES FOR VIOLATIONS OF PERMIT CONDITION

1. Criminal

a. Negligent Violations

The Louisiana Revised Statutes LA. R. S. 30:2076.2 provides that any person who negligently violates any provision of the LPDES, or any order issued by the secretary under the LPDES, or any permit condition or limitation implementing any such provision in a permit issued under the LPDES by the secretary, or any requirement imposed in a pretreatment program approved under the LPDES is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or both. If a conviction of a person is for a violation committed after a first conviction of such person, he shall be subject to a fine of not more than \$50,000 per day of violation, or imprisonment of not more than two years, or both.

b. Knowing Violations

The Louisiana Revised Statutes LA. R. S. 30:2076.2 provides that any person who knowingly violates any provision of the LPDES, or any permit condition or limitation implementing any such provisions in a permit issued under the LPDES, or any requirement imposed in a pretreatment program approved under

the LPDES is subject to a fine of not less than \$5,000 nor more than \$50,000 per day of violation, or imprisonment for not more than 3 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person, he shall be subject to a fine of not more than \$100,000 per day of violation, or imprisonment of not more than six years, or both.

c. Knowing Endangerment

The Louisiana Revised Statutes LA. R. S. 30:2076.2 provides that any person who knowingly violates any provision of the LPDES, or any order issued by the secretary under the LPDES, or any permit condition or limitation implementing any of such provisions in a permit issued under the LPDES by the secretary, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000, or by imprisonment for not more than 15 years, or both. A person which is an organization shall, upon conviction of violating this Paragraph, be subject to a fine of not more than one million dollars. If a conviction of a person is for a violation committed after a first conviction of such person under this Paragraph, the maximum punishment shall be doubled with respect to both fine and imprisonment.

d. False Statements

The Louisiana Revised Statutes LA. R. S. 30:2076.2 provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the LPDES or who knowingly falsifies, tampers with, or renders inaccurate; any monitoring device or method required to be maintained under the LPDES, shall, upon conviction, be subject to a fine of not more than \$10,000, or imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this Subsection, he shall be subject to a fine of not more than \$20,000 per day of violation, or imprisonment of not more than 4 years, or both.

2. Civil Penalties

The Louisiana Revised Statutes LA. R. S. 30:2025 provides that any person found to be in violation of any requirement of this Subtitle may be liable for a civil penalty, to be assessed by the secretary, an assistant secretary, or the court, of not more than the cost to the state of any response action made necessary by such violation which is not voluntarily paid by the violator, and a penalty of not more than \$32,500 for each day of violation. However, when any such violation is done intentionally, willfully, or knowingly, or results in a discharge or disposal which causes irreparable or severe damage to the environment or if the substance discharged is one which endangers human life or health, such person may be liable for an additional penalty of not more than one million dollars.

(PLEASE NOTE: These penalties are listed in their entirety in Subtitle II of Title 30 of the Louisiana Revised Statutes.)

SECTION F. DEFINITIONS

All definitions contained in Section 502 of the Clean Water Act shall apply to this permit and are incorporated herein by reference. Additional definitions of words or phrases used in this permit are as follows:

- Clean Water Act (CWA) means the Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or the Federal Water Pollution Control Act Amendments of 1972) Pub.L.92-500, as amended by Pub.L. 95-217, Pub.L. 95-576, Pub.L. 96-483 and Pub.L. 97-117, 33 U.S.C. 1251 et. seq.).
- 2. <u>Accreditation</u> means the formal recognition by the department of a laboratory's competence wherein specific tests or types of tests can be accurately and successfully performed in compliance with all minimum requirements set forth in the regulations regarding laboratory accreditation.
- 3. <u>Administrator</u> means the Administrator of the U.S. Environmental Protection Agency, or an authorized representative.

- 4. Applicable Standards and Limitations means all state, interstate and federal standards and limitations to which a discharge is subject under the Clean Water Act, including, effluent limitations, water quality standards of performance, toxic effluent standards or prohibitions, best management practices, and pretreatment standards under Sections 301, 302, 303, 304, 306, 307, 308 and 403.
- 5. Applicable water quality standards means all water quality standards to which a discharge is subject under the Clean Water Act.
- 6. Commercial Laboratory means any laboratory, wherever located, that performs analyses or tests for third parties for a fee or other compensation and provides chemical analyses, analytical results, or other test data to the department. The term commercial laboratory does not include laboratories accredited by the Louisiana Department of Health and Hospitals in accordance with R.S.49:1001 et seq.
- 7. <u>Daily Discharge</u> means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day. Daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample.
- 8. <u>Daily Maximum</u> discharge limitation means the highest allowable "daily discharge".
- 9. <u>Director</u> means the U.S. Environmental Protection Agency Regional Administrator, or the state administrative authority, or an authorized representative.
- 10. <u>Domestic septage</u> means either liquid or solid material removed from a septic tank, cesspool, portable toilet, Type III marine sanitation device, or similar treatment works that receives only domestic sewage. Domestic septage does not include liquid or solid material removed from a septic tank, cesspool, or similar treatment works that receives either commercial wastewater or industrial wastewater and does not include grease removed from grease trap at a restaurant.
- 11. <u>Domestic sewage</u> means waste and wastewater from humans, or household operations that is discharged to or otherwise enters a treatment works
- 12. Environmental Protection Agency or (EPA) means the U.S. Environmental Protection Agency.
- 13. <u>Grab sample</u> means an individual sample collected over a period of time not exceeding 15 minutes, unless more time is needed to collect an adequate sample, and is representative of the discharge.
- 14. <u>Industrial user</u> means a nondomestic discharger, as identified in 40 CFR 403, introducing pollutants to a publicly owned treatment works.
- 15. LEQA means the Louisiana Environmental Quality Act.
- 16. Louisiana Pollutant Discharge Elimination System (LPDES) means those portions of the Louisiana Environmental Quality Act and the Louisiana Water Control Law and all regulations promulgated under their authority which are deemed equivalent to the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act in accordance with Section 402 of the Clean Water Act and all applicable federal regulations.

17. Monthly Average, other than for fecal coliform bacteria, discharge limitations are calculated as the sum of all "daily discharge(s)" measured during a calendar month divided by the number of "daily discharge(s)" measured during that month. When the permit establishes monthly average concentration effluent limitations or conditions, and flow is measured as continuous record or with a totalizer, the monthly average concentration means the arithmetic average (weighted by flow) of all "daily discharge(s)" of concentration determined during the calendar month where C = daily discharge concentration, F = daily flow and n = number of daily samples; monthly average discharge =

$$\frac{C_1F_1 + C_2F_2 + ... + C_nF_n}{F_1 + F_2 + ... + F_n}$$

When the permit establishes monthly average concentration effluent limitations or conditions, and the flow is not measured as a continuous record, then the monthly average concentration means the arithmetic average of all "daily discharge(s)" of concentration determined during the calendar month.

The monthly average for fecal coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar month.

- National Pollutant Discharge Elimination System (NPDES) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of the Clean Water Act.
- 19. Severe property damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- 20. Sewage sludge means a solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in a treatment works. Sewage sludge includes, but is not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment processes; portable toilet pumpings, type III marine sanitation device pumpings (33 CFR part 159); and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screenings generated during preliminary treatment of domestic sewage in a treatment works.
- 21. <u>Treatment works</u> means any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage and industrial wastes of a liquid nature to implement Section 201 of the Clean Water Act, or necessary to recycle or reuse water at the most economical cost over the estimated life of the works, including intercepting sewers, sewage collection systems, pumping, power and other equipment, and their appurtenances, extension, improvement, remodeling, additions, and alterations thereof. (See Part 212 of the Clean Water Act)
- 22. For fecal coliform bacteria, a sample consists of one effluent grab portion collected during a 24-hour period at peak loads.
- 23. The term MGD shall mean million gallons per day.
- 24. The term mg/L shall mean milligrams per liter or parts per million (ppm).
- 25. The term ug/L shall mean micrograms per liter or parts per billion (ppb).
- 26. The term ng/L shall mean nanograms per liter or parts per trillion (ppt).

27. Weekly average, other than for fecal coliform bacteria, is the highest allowable arithmetic mean of the daily discharges over a calendar week, calculated as the sum of all "daily discharge(s)" measured during a calendar week divided by the number of "daily discharge(s)" measured during that week. When the permit establishes weekly average concentration effluent limitations or conditions, and flow is measured as continuous record or with a totalizer, the weekly average concentration means the arithmetic average (weighted by flow) of all "daily discharge(s)" of concentration determined during the calendar week where C = daily discharge concentration, F = daily flow and n = number of daily samples; weekly average discharge

$$= \frac{C_1F_1 + C_2F_2 + ... + C_nF_n}{F_1 + F_2 + ... + F_n}$$

When the permit establishes weekly average concentration effluent limitations or conditions, and the flow is not measured as a continuous record, then the weekly average concentration means the arithmetic average of all "daily discharge(s)" of concentration determined during the calendar week.

The weekly average for fecal coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

28. Sanitary Wastewater Term(s):

- a. 3-hour composite sample consists of three effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) over the 3-hour period and composited according to flow, or a sample continuously collected in proportion to flow over the 3-hour period.
- b. 6-hour composite sample consists of six effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) over the 6-hour period and composited according to flow, or a sample continuously collected in proportion to flow over the 6-hour period.
- c.12-hour composite sample consists of 12 effluent portions collected no closer together than one hour over the 12-hour period and composited according to flow, or a sample continuously collected in proportion to flow over the 12-hour period. The daily sampling intervals shall include the highest flow periods.
- d. <u>24-hour composite sample</u> consists of a minimum of 12 effluent portions collected at equal time intervals over the 24-hour period and combined proportional to flow or a sample continuously collected in proportion to flow over the 24-hour period.